THE AMERICAN RIFLEMAN

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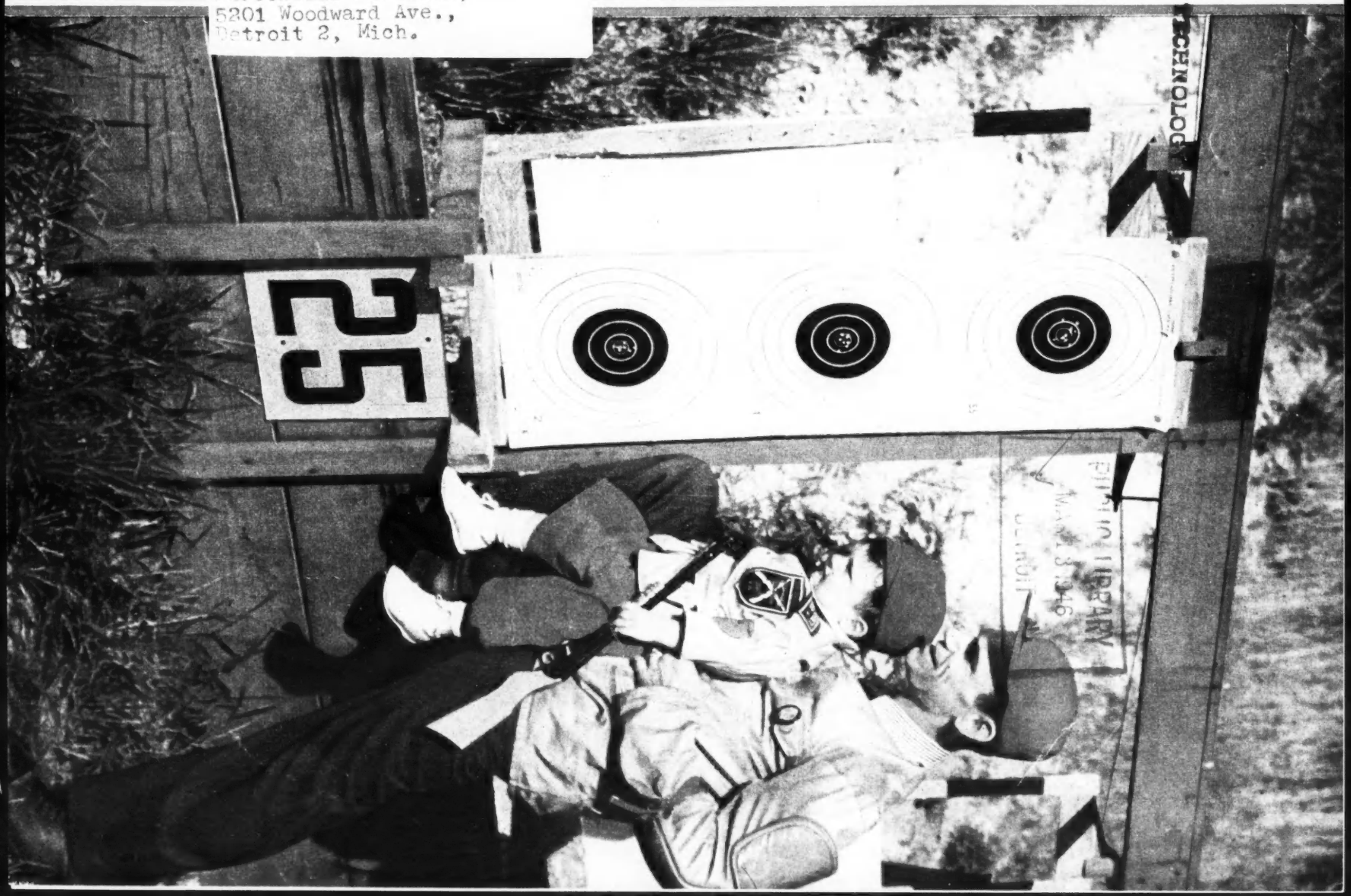

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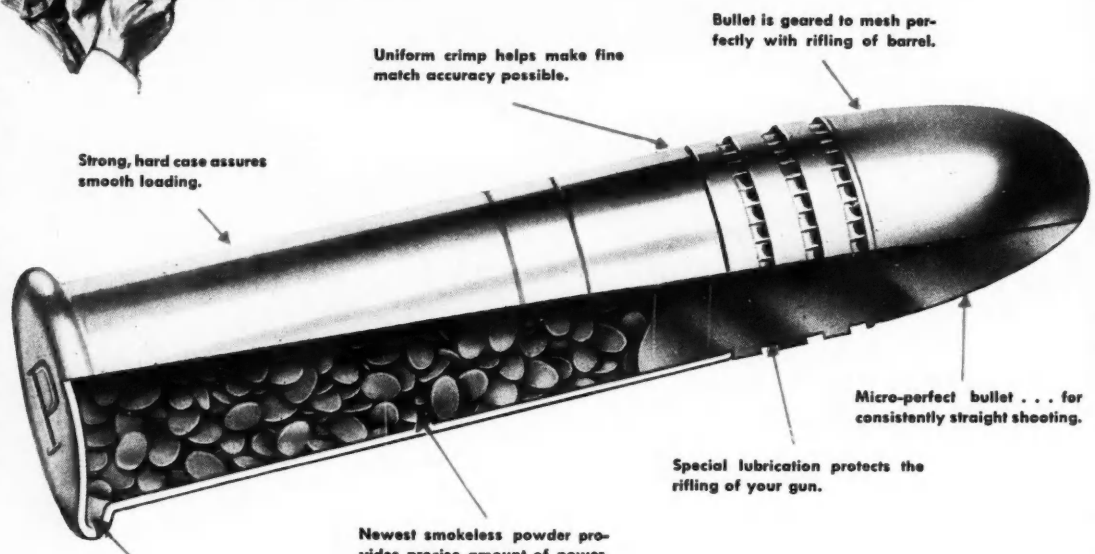
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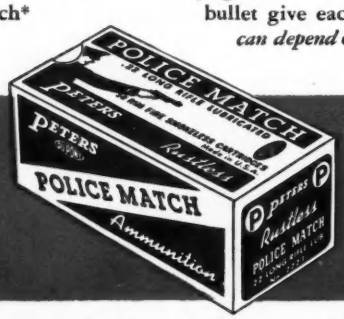

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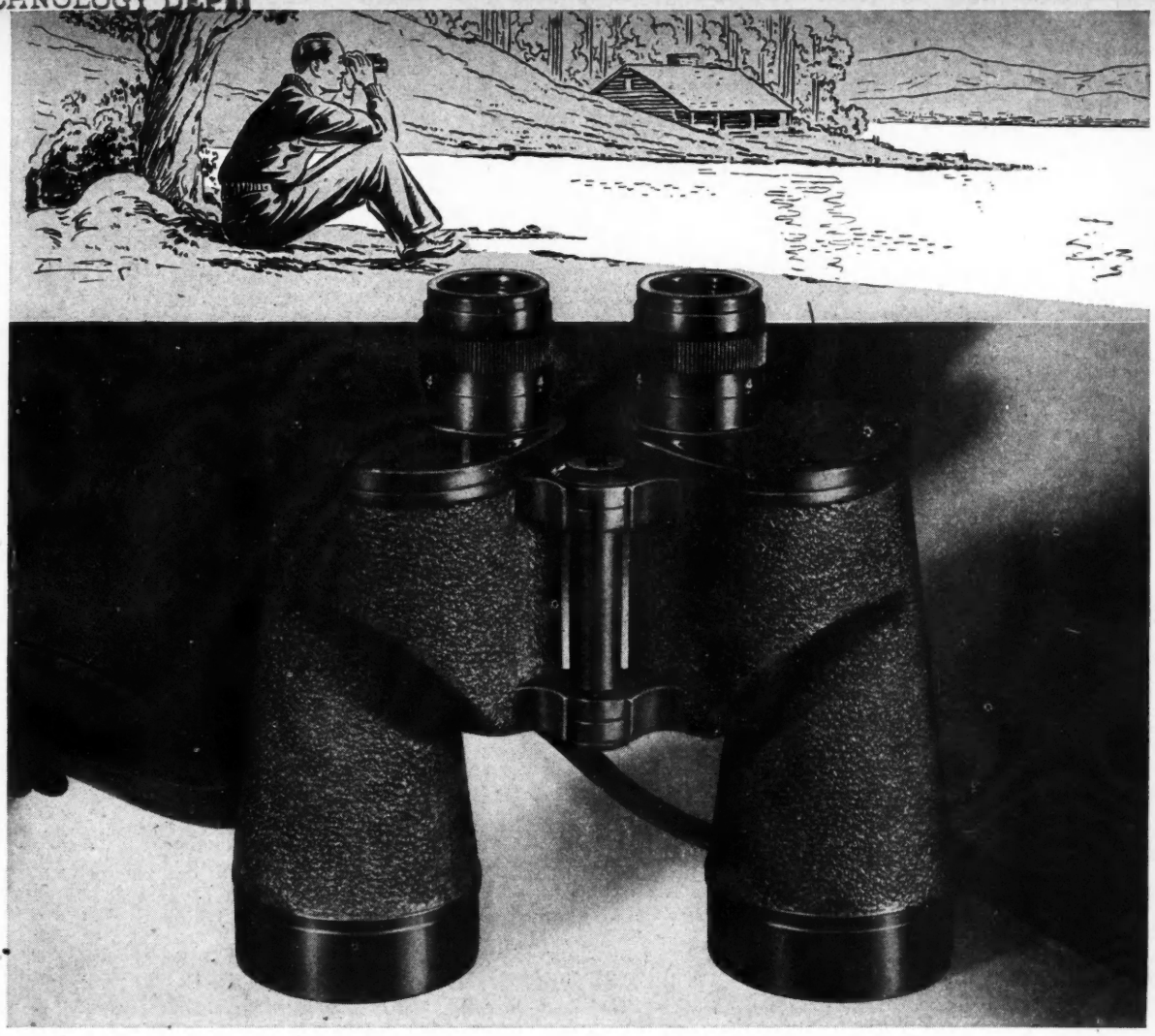

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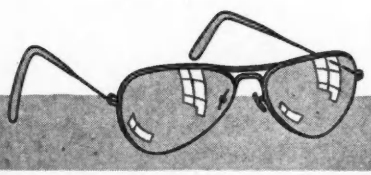

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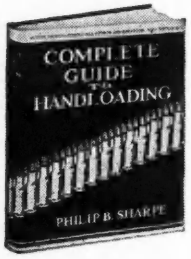

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The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

VOLUME 94 NUMBER 3

MARCH 1946

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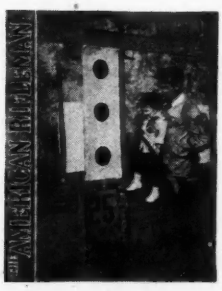

COVER

March, in many sections of our country, heralds the beginning of the Outdoor shooting season. Targets galore . . . small bore, big bore, pistol and revolver . . . the greatest array ever, and thousands of shooters, new and old, to work them over.

On the cover this month, a prospective new shooter is being introduced to the small bore rings; symbolic, shall we say, of an introduction possible these coming months for older juniors, younger seniors, especially the former G. I. who knows only the military targets, and a sergeant's watchful eye. Kodachrome photograph by Eleanor Dunn, New York, N. Y.

PUBLISHED MONTHLY BY THE NATIONAL RIFLE ASSOCIATION OF AMERICA, 1600 RHODE ISLAND AVENUE, WASHINGTON 6, D. C. DOMESTIC RATES (NORTH, SOUTH, AND CENTRAL AMERICA) $3.00 A YEAR; $5.00 FOR TWO YEARS. ELSEWHERE, $3.50 A YEAR; $6.50 FOR TWO YEARS. ENTERED AS SECOND-CLASS MATTER, APRIL 1, 1908, AT THE POST OFFICE AT WASHINGTON, D. C., UNDER ACT OF MARCH 3, 1879.

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FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL.

TARGETS

By C. M. PALMER, Jr.

Above: Canada Geese under protection of a National Wildlife Refuge in North Dakota. Over 16 million ducks and geese were shot by hunters in 1942.

Right: Mourning Dove feeds her young in their nest. Besides ducks and geese, 41 million upland game birds and 11 million other migratory game birds fell in 1942.

Photos Courtesy Fish & Wildlife Service

Blacktail deer and young are shown in summer coat. Fish and Wildlife Service statistics based on 1943 census show slight decrease in Blacktails and Mules.

EVERY QUESTIONNAIRE SUBMITTED TO SERVICE MEN seems to bring out the same general idea. Hunting and fishing are high on the list of preferred post-war pastimes for G. I. Joe. Many of them, of course, long before they entered the service, took out hunting and fishing licenses. But the estimates being batted around these days, based on careful surveys, indicate that a whole new crop of outdoorsmen are aiming at America's wildlife. These, plus the old, lead to figures like twenty-six million . . . about half of these, roughly, hunters. An Army of thirteen million hunters, say, more than half again the number in our wartime Army; about equal the number in the Army, Navy, Marine Corps and Coast Guard, combined. And that's more than half again as many licensed hunters as we had in 1942, the last real peacetime season before the wartime economy set in seriously.

This shouldn't necessarily come as a surprise, for it's only a repetition of history. The same thing happened after the last war. It's only a natural consequence of drastically altered living habits. Modern ways of living do not offer the greatest encouragement or the opportunities for the field sports. Many men getting into the service, for the first time tasted of the out-of-doors. And while it may not have been under the most auspicious circumstances, it offered promise to the imaginative, of better things on a more private and personal basis. Under more pleasant conditions, it is almost inevitable that many of these men should want to continue this outdoor association.

And another thing, for the first time in their lives many of these men have had an opportunity to learn something about rifles and shotguns and pistols and revolvers. For the first time they've had a chance to learn to use these weapons of war and also of the hunt. In these pages last August, Colonel George Van Orden said that of a sample 5,000 Marines back from the Pacific, sixty-five per cent of them planned on hunting with the rifle after the war, and sixty per cent indicated their intention of upland game shooting with the scatterguns.

There's little doubt this army of thirteen million hunters is no exaggeration. But what are they going to hunt and where? It's fine to think of our country again as a "nation of riflemen," but what have we to offer in the way of game? How much game will it take? How many wild targets are going to be necessary? Do we have them, and can we maintain a stand of game that will bear up under the increased strain?

Bookkeeping was never one of this writer's great accomplishments. My checkbook is always at variance with the figures of the bank. But perhaps with the figures of the Fish and Wildlife Service we may have better luck.

In the field of small game there are few figures of game populations on a nation-wide basis. There are too few states that make any attempt to census their own small game assets. Yet wildlife census methods are improving all the time.

FOR ALL?

In spite of considerable criticism of the idea of counting wild animals, it can and is being done, so that a good idea of trends in populations may be studied. This is as important in wildlife management as in any business. The people who make these counts are more conscious of the faults and lacks of their methods and more anxious to improve them than anyone else. Since 1937 the Fish and Wildlife Service has made an annual big game census employing hundreds, yes, thousands of co-operators. Those 8,000,000 hunters of 1942 took some 646,973 head of big game. They took 71,090,217 small game animals, 41,409,869 upland game birds, 16,716,336 ducks and geese, and 11,517,767 other migratory game birds. That makes an individual bag for each hunter in round numbers of five upland game birds, two waterfowl, 1.5 other migratory game birds, nine small game animals, and one-eleventh of a head of big game. That's a sizable take, and during the period of the war it was an important source of point-free red meat which was an almost unknown item on the American civilian table.

According to Research Report 8 of the Fish and Wildlife Service, the huntable big game population of the country was 6,748,414 animals. The take that year was about 9.5 percent of the whole which is a perfectly safe harvest of the big game crop. Game managers seem to feel that 10 percent of the crop is a safe figure to work on generally. This same Research Report 8 points out that "a hunting kill of 12 percent of the big game population is the maximum that should be permitted.

National Wildlife Week
March 17 through 23

If we increase the number of hunters 50 percent, it is reasonable to assume that the annual take will go up similarly. This could very well be disastrous to even our deer herds although there are some sections where such a take for a year or maybe two might be advantageous locally. It would certainly be disastrous to some of our rarer species such as the sheep and goats, although such an increase in kill is probably less likely with these species than with deer, bear, and small game.

The big game picture according to Fish and Wildlife Service statistics is about as follows:

Species	*Kill in 1942*	*1943 Census*	*Increase or decrease*
Deer	598,241	6,346,630	Whitetails increase; Blacktails and mules show slight decrease.
Elk	33,761	233,714	No change
Antelope	9,459	246,090	23 percent increase
Moose	121	14,803	25 percent increase
Sheep	22	17,884	Desert bighorn 69 percent increase Mountain bighorn 10 percent decrease
Goats	100	16,100	No change
Bear (black)	5,269	151,653	29 percent increase
Caribou	...	15	On verge of extinction
Peccary	...	111,785	106 percent increase
European wild boar	...	2,436	98 percent increase
Grizzly bear	...	1,265	No change
Bison	...	6,047	21 percent increase

Above: The bear population is on the increase. At least the number of Black Bear had jumped up 29 percent at census time.

Left: The Woodcock, mud-boring resident of the lowlands, is on the watch for any danger to her young.

Photos Courtesy Fish & Wildlife Service

Among the big game animals showing a sizable increase in population is the Moose which, according to Fish and Wildlife, boosted its numbers 25 percent.

The trend in general is good—a 5.9 percent increase since 1941, it is pointed out. This is especially good when it is realized that in many states the illegal kill is estimated to be as high as 50 percent of the legal kill. But while this trend is good, it still doesn't seem to offer too much encouragement for a greatly increased hunting population in the immediate future.

Over a period of years, however, there is little doubt that we will be able to handle much larger hunting pressure. It is said that our nearly six and a half million deer are concentrated into less than 25 percent of their original area. A great part of that range is forever lost to the deer and to all other wildlife, but there is still hope of being able not only to increase the production of small game and deer, but of other species as well on smaller ranges by means of careful, intelligent management.

Scarcely a decade ago the cry was, "We don't know what game needs and we don't know how to provide it if we did know." But that is well in the past now. As in all other fields, our technical folks have gone after the answers and they are finding them every day. This was brought home to me the other day by the receipt of two packages of literature from the American Wildlife Institute in Washington. It will be recalled that in 1935 the Institute initiated a co-operative research and demonstration program with the Fish and Wildlife Service, the fish and game commissions of ten states, and with the land grant colleges of those same ten states.

Like all other civilian pursuits not bearing directly on the war effort, this program suffered considerably after December 7, 1941. Much of the work stopped entirely and much of the personnel went into the service or in other war activity. However, some work was carried on and the reports of this and other previous work were prepared and published. This batch of literature contained sixty-eight separate reports, ranging from magazine and technical journal reprints to cloth-bound books of 320 pages in length. They covered thirteen different species, including a group of general wildlife management reports and a series of teachers' manuals on wildlife management.

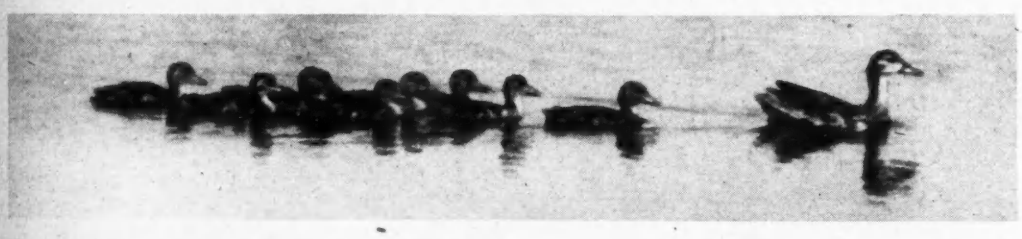
The letter accompanying this shipment of literature read in part, "These two shipments represent only an infinitesimal percentage of the findings of the ten units, but it is hoped that this literature will give you a more comprehensive idea of the good being accomplished by this program."

Each item of that stack of reports should be reviewed here but there is neither time nor space. The consoling thing, however, is that this sort of information is coming through even in spite of the war. It is the only answer to the problem of providing wild targets for 13,000,000 riflemen and hunters. No, it is not exactly the only answer. It is one of the answers.

Photos Courtesy Nature Magazine

The squirrel, shown at left carrying its young to their nest, and all other small game animals were heaviest victims of 1942 hunters, averaging nine killed for each licensed hunter. The average for big game was one head for every eleven hunters.

The information is basic and essential and without it there can be no intelligent management of our wild target reserves. But the other answer of equal importance is the building up of a trained manpower to intelligently utilize this information. This, too, is being provided by this co-operative program. One of the requirements of the program was that the college at which the local research was located should set up a course in wildlife management with full collegiate credits for those who undertook that course. While many of the men who took advantage of this course of study went almost immediately into the armed services, they will be coming back shortly to take up where they left off. In the meantime, new students are being turned out from these colleges majoring in wildlife management to lend their talents to the development of an ample supply of wild targets for all hunters. ◆ ◆ ◆



Much has been done to help increase the numbers of migratory game birds. Here a blue-winged teal is leading her young in the protection of a northern U. S. refuge.

An Editorial

Registration—Confiscation

WHENEVER objections are raised to the Gestapo idea of police registration of privately-owned firearms the proponents of registration have a stock reply which runs like this—"Why should an honest citizen object to registering his guns? He doesn't object to registering his automobile. No one intends to confiscate the registered guns. What's all the howl about?"

People do not object to registering their automobiles because—(a) the registration is automatic and does not entail the "by your leave" of some petty police officials; (b) the use of the automobile entails the use of public highways which must be maintained by some form of taxation and the automobile registration tax is a reasonable form of highway tax; (c) the large, visible license plate helps occasionally (though not too often) in the arrest of hit-and-run drivers, bank robbers, and other criminals.

People do object to the registration of firearms because—(a) The registration entails a trip to the police station where the gun owner is, too often, treated like a potential criminal and not infrequently finds his application for a permit refused; (b) the possession and use of the gun entails no use of facilities paid for by taxation. If such a rare thing as a municipal range is used the shooter cheerfully pays each time he uses the facilities; (c) the numbers stamped on the gun are visible only on close examination and can never be seen by an observer when the gun is carried or used by someone else. They do not serve the quick identification purpose of an auto license tag.

But there is a greater reason for the "howl" about gun registration. Confiscation of arms owned by individuals of the opposing parties is *always* the essential step in the imposition of the will and government of the minority upon the will of the majority. This is true whether the minority group seeking power is labeled "Fascist," or "Communist," "Royalist," or "Peoples' Party." As confiscation of arms must precede the establishment of a minority group dictatorship so must registration of arms precede a successful campaign of confiscation. *This* is what all the "howl" is about!

"No one intends to confiscate the registered weapons." Probably not—at the moment. But who will be seeking power tomorrow? And there *are* law enforcement officials in America who have said that they ought to know where privately-owned weapons are held so that "we can pick them up if necessary." Who is to determine that "necessity?"

England disarmed its civilian population during the twenty years preceding World War II by the operation of a firearms registration law. Vitally urgent pleas came from the British people and the British Government in 1940 and '41, pleas that Americans donate their pistols, rifles, shotguns, to the British people for the defense of their homes from domestic and foreign looters. Surely any sane person would think that such a picture, ludicrous had it not been tragic, would be long remembered in Britain!

On February 10, 1946, the British Home Secretary announced that "all unlicensed weapons, including firearms brought home by returning servicemen, will be called in (confiscated) next week."

In December, 1945, the Royal Canadian Mounted Police made a determined effort to obtain authority from the Canadian Government to "call in" all registered pistols and revolvers in Canada because they "feared" a crime wave.

In March, 1944, Attorney General Robert W. Kenny, of California, told the California State Sheriffs' Association: "Unless government officials take steps to check the bringing back of these deadly weapons *our efforts of fifty years in disarming the public* may prove futile."

On this record of action and statements by high officialdom in England, Canada, and America, why should patriotic citizens feel sure that "no one intends to confiscate the guns after they are registered"? Who will decide when an "emergency" exists that demands "calling in" all privately-owned weapons? Who will decide the *kind* of people who will be permitted to retain their arms?

That is what "all the howl" is about!—C. B. L.

So I Says to McCandlass

By BILL McCANDLASS

IT WAS AN INTERLEAGUE MATCH, the wind-up of the regular winter indoor season, the final smoke throwing and coffee-and-doughnut get-together. And McCandlass was riding high.

Yes sir, it was one of those evenings when a guy is smooth and relaxed. I'd gone clean, prone and sitting, which was ordinary enough. Coming up to kneeling I was already resigned to dropping anywhere from two to four points, as usual in that cussed position when, lo and behold, darned if I didn't wobble them all in instead of out. When I crawled to my feet and began taking off the sling, the realization hit me that, for Heaven's sake, I'd gone clean in the first three positions.

Yipe, thinks I—and right there I made a horrible mistake. It doesn't pay to think too much on the firing line, especially along the lines I was thinking. What were my thoughts? Well, once when the gods of fortune were good to me I shot a 49 offhand and—Holy Smokes!—suppose I shot another 49 right now, or a 48; or even a 47, or 46. Wouldn't that be something?

But then I began to think about a very good friend of mine, a seasoned, experienced, careful old-timer who had won enough medals to fill a small room. His experience was identical to mine, he'd gone clean in the first three stages. And then the jitters, hiding in the shadows, swarmed out and lit all over him.

I never saw a man suffer so. He puffed and snorted like a buffalo in a mudhole. He sweated, he gasped, he shook. And, finally, when the clock had him on the hip and he *had* to get that last shot away, he yanked it off in sheer desperation for a complete miss. His groan of agony was heart-stirring. And the Jitters joined hands and danced with glee.

That did it. Up to this point, as I said, I'd been smooth and relaxed. Now, when I tried to get off that first shot, standing, I tightened up and began to press. The cross hairs and the bull's-eye started that old drunken 'round-and-'round-the-mulberry-bush swing that drives rifle shooters nuts. I tried all the remedies. I put the gun down. I sat myself down. I breathed deeply. I quit breathing entirely. I built a smoke. I yawned. I stretched. I cracked a joke with the guy next to me.

When I got up to try again, no soap. The antagonism of the cross hairs and bull's eye was worse than ever. Knowing that time was ticking away on me, I began to sweat a little. A sense of desperation got hold of me. I got mad.

"What the hell?" I says to McCandlass. "What kind of a sniveling, spineless, weak-kneed so-and-so are you? Are you a man or a mouse? Get up there and knock out a flock of tens and show this gang of palookas a real score!"

Take yourself aside . . . give yourself a good tongue lashing . . . then practice . . . the prescription helped one man's shooting at least

What a laugh! When I finally staggered off the firing point just ahead of the time limit, I had the realization of one thin nine, three equally thin eights and a big, juicy seven to mock my writhing soul. Ten points down.

I was close to physical wreckage. Wringing wet with sweat, bug-eyed, jittery as a sow bug under a hot iron, I was just a shadow of the reasonably strong and healthy shooter I'd been a few minutes before.

Yeah, that's what the firing-point jitters can do to a man—jitters, bugs, wing-dings, or whatever you want to call them. They live and breed on all firing points, feeding mostly on the tender meat of the inexperienced. But every now and then they bite into the tough hide of some old-timer and make a horrible wreck out of him. No man ever lived who was completely immune. Some of the belly-whopping boys seem to have things pretty well under control, due to the fact that Mother Earth is pretty steady when you're cuddled down close to her. But any time you get up on your hind legs, with nothing to lean against, it is a different story.

And sometimes the belly-whoppers get an eyeful of bugs, too. If you don't believe me, get behind the firing line some time when that lovely Swiss Miss-and-Out Match is in progress. Two hundred yards on the C-5 target, a seven-and-two-tenths-inch bull, and you shoot as long as you keep 'em all in the bull.

Sure, somebody always gets away to a good start and lathers Hell out of that bull's-eye. But listen closely and note how many times you hear a scorekeeper drone—"First and last shot for record—a four!" Ah! Those sad, immortal words. And then mark the dumbfounded, bewildered, unbelieving look on the shooter's pan as he gathers up his rigging and slowly walks away. His alibis are legion: "Got caught in a change—cartridge had a funny sound, must have been a flier, et cetera."

This sort of talk doesn't fool the jitters, the bugs, the wing-

dings, though. Smirking with delight they hide in the grass, ready to pounce on the next unfortunate.

Realistically speaking, the answer is pressure, which means the sudden realization that you have to, or ought to, produce. Keep the pressure off the average shooter and he'll go his merry way, turning in scores ranging from average to pretty good. Put the pressure on him and almost anything can happen. Occasionally he'll come through like a champ. In most cases, however—well, look what happened to me.

Practice all you possibly can. Practice and more practice. Know and watch the fine little points of the game and practice them religiously, too. Out of all this will come confidence, which is nine-tenths of the battle. Of course, a nonimaginative make-up helps a lot, too. But don't give up before you start if you are one of those high strung folks with an overdose of imagination. You still can go a long way in the shooting game but you will have to watch yourself a little more than the others. Adopt a shooting philosophy—when you go up to that firing line, convince yourself that you have everything to win and nothing to lose, that you are there to have fun and not to suffer like a dog. And after you get used to losing, why then you'll start to win.

All one spring and early summer I'd been traveling around, taking in various outdoor small-bore shoots. I'd been laying my money on the line, getting my ticket, and doing my shooting. And when the smoke cleared away, I found myself consistently occupying that colorless and ignominious position about halfway between the bottom and the top—neither real lousy nor real good, just ordinary.

One day I got mad, took McCandlass over behind the clubhouse and gave him Hell again. So McCandlass, a humble and chastened man, went home and started some consistent practice, aiming at a shoot some three weeks hence. Every day, on my own one-man-firing-point range, I shot over the Dewar course, either with iron or scope sights, at least once. If I had time and felt good I'd go over it twice, once with iron, once with scope sights. Generally I'd toss in a twenty-shot string at fifty meters, which is a mean little skunk of a match. Anyway, I practiced, hard and conscientiously, and by the end of a couple of weeks I found that I was holding just about as hard at the end of a long string as I had been at the start. I wasn't getting those old fatigue cramps and shakes like I had in the past.

"The Jitters danced with glee."

Came the day of the shoot and McCandlass went to town, collaring a whole flock of medals, ending up not worse than third in any match, and skinning through to first in a couple. I heard one of the rivals say to another, "They must have given the old buzzard a shot of high life."

There is no deep secret to reasonable proficiency in the shooting game regardless of weapon, and whether it be strictly hunting, or strictly target work, or both. It is just a matter of practice, the more the better. Gadgets won't take the place of practice. There are always shooters who hope that they will. So they have gadgets, all kinds and descriptions. They are continually on the hunt for some kind of gadget that will miraculously take the place of consistent, hard holding. They haven't found it and never will.

That great old-timer at pistol work, Ed McGivern, has done, and can do, things with a six-shooter which border on the supernatural, and it is easy to incline to the belief that Ed is an individual, especially endowed. At which assumption, Ed laughs louder than anyone else. Ed has always said, and says now that there is no deep secret to it. It all sums up to practice—years of it, tens of thousands of rounds of it.

Some years ago a case of .30-'06 ammunition found its way under the shop bench. It was World War I regular-issue stuff. I was shooting a Springfield Sporter then, for deer hunting, and I spent a lot of time back in the foothills during the off season with the Springfield. I'd throw a bandoleer of that war-issue stuff over my shoulder and start hiking, looking for ground squirrels, jack rabbits, and such. I didn't spare the horses. Running or standing, at short range and long, I'd work out on those squirrels and rabbits. I shot offhand. I shot kneeling and sitting. Sometimes, when the terrain would allow, I'd shoot prone. I shot fast and I shot slow. Toward the end of that summer there was many a rabbit high-tailing across the side hill that ended up in glory and a cloud of dust and many a ground squirrel which stopped at the edge of its burrow for a last look and which paid the well-known penalty for an overdose of curiosity.

That old Sporter came to be such a part of me I did not feel natural with it out of my hands. At any rate, come deer season, the results of all that shooting paid off, and some of my hunting partners would swear that never was there a guy so shot full of luck as was McCandlass. Maybe they were right, but I incline to the theory that all of my practice had something to do with it.

There have been years when, for one reason or another, I had no chance to do much, if any, heavy rifle shooting during the off season. And then, when I'd go out after deer, the Red Gods must have indeed blown a gasket laughing at McCandlass' first frantic attempts at connecting with a bounding chunk of venison.

Of course, we can't all be so situated geographically that we can step out of the shanty and go shooting whenever the hunch strikes us. But a man can do regular snapping-in practice in his own house. It may not be a very interesting or colorful business, but it is *so* much better than no practice at all. For even this will enable a man to retain the feel of his gun and keep the co-ordination of eye, hand, and brain from becoming completely petrified. Then, when he goes after that buck or that club championship, he would have some modicum of confidence.

And confidence is the big pay-off. Without confidence in your gun and yourself, you've got two strikes on you and your foot in the water bucket before you ever start. Confidence you *must* have. And the backbone of confidence is practice. You hear me? Practice! ♦ ♦ ♦

Partial view of head table at NRA banquet. Left to right: Chairman May of House Military Affairs Committee; Undersecretary of War Kenneth Royall; General Eisenhower; Colonel Francis Parker, NRA president; Mr. Luke Hopkins of Johns Hopkins University; Senator Edwin Johnson, of Colorado; General A. A. Vandegrift, Commandant of Marine Corps; Representative John Snyder, of Pennsylvania.

DIAMOND JUBILEE

AN UNUSUAL AIR OF IMPORTANCE surrounded this year's annual meeting of NRA directors and members. It was the first peacetime meeting in four years . . . a reunion, therefore, of ribbon-bedecked directors, friends, and high military officials. It was the first time in five years peacetime shooting activities could be appropriately discussed and planned. Moreover, it was the first time, so far as we can learn, in National Sporting Organizational History that a Diamond Jubilee could be celebrated. Seventy-five years for the NRA, 1871 to 1946, seventy-five years of shooting promotion, civilian and military, reaching its greatest service in a war just ended. And the seventy-fifth year indicated every possibility of becoming the greatest by far of any previous year. Plans, therefore, for this year with its expanded activities, and for the peacetime years ahead deserved special consideration and study.

Appropriately, this Diamond Jubilee found recognition among Washington officialdom. At the dinner, the evening of February first, General of the Army Dwight D. Eisenhower headed the list of distinguished military leaders, including four-star General Courtney Hodges of the famous American First Army in Europe . . . four three-star Generals, and thirty-four Major Generals and Brigadiers. Senators and Congressmen, high Government officials interested in the Association's program, marked their attendance with best wishes.

It was General Eisenhower, the principal speaker, who had opportunity to voice this recognition. Mentioning his ready acceptance of the speaker's role for this occasion, he said he considered it his duty and his privilege to pay tribute to the splendid record of the Association and its members during the war just completed. It was an example of high devotion on the part of NRA members, particularly of selflessness which, he pointed out, was the single characteristic selected by General George Marshall and General Omar Bradley as the most important criterion in choosing men for responsible positions. Then, expressing his belief that all the military leaders of all nations were occupying themselves now with finding some way to prevent wars in order to keep man from destroying himself, he said: "An organization such as the National Rifle Association—utterly selfless in its aims—can do more than any other single group in achieving the cooperation we need."

At the afternoon business meeting, Commander Thurman Randle, the retiring president, welcomed the directors and expressed satisfaction at the growth and progress of the Association during his two-year term.

Reporting as Executive Vice-President, Major General Milton A. Reckord explained that he had just returned to the Associa-

General Vandegrift, Rep. Snyder, and Major General Milton A. Reckord, who has just taken up his duties again with the NRA.

tion after nearly five years of service with the Army. He extended congratulations to C. B. Lister and the Headquarters staff for the progress as reflected by the Secretary-Treasurer's Annual Report, and predicted a bright future for the organization. The General discussed briefly the changes that would have to be made in the program of the National Matches, and closed his remarks by urging an early meeting of the National Board for Promotion of Rifle Practice to consider various matters of interest to the NRA.

Mr. Lister gave a brief review of his annual report. He noted that this seventy-fifth year of the National Rifle Association is bound to be a big one. The organization is getting started in this first full postwar year with a sound financial backing, and with adequate special reserves to develop the membership potential created by the war. Although many physical changes have been made in the three-quarters of a century, Mr. Lister said that the NRA has not departed from its basic purpose, nor altered its basic ideal—to interest and to educate the greatest possible number of American citizens in the safe and accurate use of small arms. The basic ideal has been to build an organization of sportsmen who would never lose sight of the need for an adequate program of national defense, and who would at all times place the welfare of the Nation ahead of the selfish interest of any individual or group.

Membership in the NRA has climbed to an all-time high, despite the ban on individual membership drives during the war. The main reason for not campaigning for members was the shortage of paper and the resultant curtailment of THE RIFLEMAN. NRA membership is now close to 100,000.

At the end of 1945, Class "A" Clubs numbered 435; Class "B" Clubs, 1,712, a total of 2,147. Junior Clubs totaled 1,448; College Clubs, 53. And more clubs in all classes are being added each month.

Election of officers brought unanimous approval for Colonel F. W. Parker as President; Raymond K. Stritzinger, Vice-President. Re-elected were General Reckord, Executive Vice-President, and Mr. Lister, Secretary-Treasurer. Colonel Parker is a Chicago patent attorney now on duty with the War Department in Washington. Mr. Stritzinger comes from New York and is President of Continental Baking Company.

Commander Randle was elected to the Executive Council, and the following were added to the Executive Committee: Brigadier General Sidney Hinds, USA, Brigadier General Merritt A. Edson, USMC, and Harry D. Linn, Secretary of Agriculture for the State of Iowa. To fill vacancies on the Board of Directors, these members were elected: General Edson for Major General Julian S. Hatcher, USA, term ending 1947; Walter Kelsey, Tarrytown, New York, for Lieutenant Commander Fred M. Molt, Asheville, North Carolina, term ending 1947; Lieutenant Colonel Paul Roberts, Assistant Director of Civilian Marksmanship, for Lieutenant Commander Ray B. Whitaker, Tulsa, Oklahoma, term ending 1947; Charles S. Borup, Houston, Texas, for Commander Randle, term ending in 1948.

General Hatcher resigned to head the newly enlarged Technical Division at staff headquarters; Commander Molt is the Association's new field representative in the Southeastern Territory; and Commander Whitaker will head a similar office in Tulsa.

Colonel E. F. Sloan, the Director of Civilian Marksmanship, was called on at the meeting and spoke enthusiastically of the work of his office in the sale of certain ordnance shooting equipment to members of the Association for small-arms practice. Others who spoke briefly were General Smith, General Hinds, and Colonel Joe Starnes. Each has recently returned from overseas after extensive distinguished service. They emphasized the value of small-arms training as an important adjunct to world peace.

Brig. General Merritt A. Edson, USMC, winner of Congressional Medal of Honor, jokes with C. B. Lister, NRA secretary-treasurer.

Two resolutions were passed by the directors. The first expresses unalterable NRA objection to national, state, or municipal legislation that would require the registration with police or military authorities, in time of peace, of privately owned firearms designed for personal defense or recreation. The second resolution authorizes continuation and expansion of the present system of presenting meritorious awards on proper recommendation to anyone who has made a worth-while contribution to the promotion of small-arms marksmanship.

Three reasons were advanced for opposing registration in the first resolution: (1) that such a registration list could be used by our nation's enemies to disarm the public; (2) it would not prevent criminals from making or importing their weapons; (3) it would curtail the interest of average citizens in small arms training thereby weakening our national defense. This vigorous statement of policy by the Directors, indicative of the continued fight to be waged by the Association in the postwar years was supplemented by unqualified endorsement of the National Firearms Act and the Federal Firearms Act and the recommendation that each state legislature adopt measures embodying the same principles.

NRA directors left their Seventy-fifth Annual Meeting with the good feeling that 1946 will be a banner year in the Association's long history. The regular schedule of registered tournaments and leagues is being resumed, but the accent for the immediate future will be on instruction. It's well agreed that the National Rifle Association is now moving forward with more strength, greater prestige, and higher hopes than ever before. ♦ ♦ ♦

The Home Workshop

TINKERIN' NOTES

Setting Scope Blocks

Here's a simple recipe for setting a pair of scope blocks without the usual elaborate setup of V-blocks, surface plates, and whatnots. All you need is a couple of blocks of wood and a pair of straightedges about a foot long. If you're working with a single-shot action, the chances are that the receiver or frame will have a pair of flat surfaces on the top right about where the breechblock comes up. This is generally square across. If it's a bolt gun you have, the spot you want will be under the action just back of the recoil shoulder.

Place a block of wood about three inches long, one inch wide by seven-eighths inch thick near one end of a table and lay the action on it. Place it so that the flat back of the recoil shoulder (in the case of the bolt gun) will rest on the block squarely and evenly. Jack up the muzzle of the weapon with another similar block so the gun rests solidly. Now, slip one of those straight edges under the action and on top of the wooden block. Incidentally, if you don't have a pair of twelve-inch steel scales, use a couple of pieces of drill rod or cold-rolled steel. Anything that is not crooked or warped in any way will serve. If you are using round rods they needn't be more than three-sixteenths inch in diameter. But flat or square rods are better, of course.

Next you mark out the positions for the two scope blocks. Lay the front one on the barrel first and hold it there with one hand. Lay the other straightedge across this scope block just ahead of where you are holding it at the end. Now, you can slide the block left or right until the straightedge lines up perfectly with the one under the action. Sounds silly, doesn't it? But it works. Mark down through the screw hole in the block with a sharp scriber and you have a circle easily centered by eye. Center-punch this circle.

When you come to drill this hole, set the barrel and action on the bed of the drill press and put those straightedges to work here, again. If the jaws are good and square, you can lay the straightedge on the top of the drill press vise. The rest is easy, unless you drill right through the barrel, which ain't funny McGee. When you get one block mounted, you can set up your straightedge on that one to line up the other block.

Trigger Pull Revolver

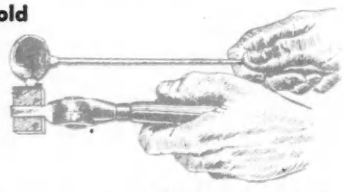
"The manufacturers don't know how to make a revolver so it will time right," gripe the gripers. Ever hear that crack? Yes, and the chances are that when you examine their revolvers carefully, you'll find the answer just where you thought it was if you know what you're doing. Some people just can't let well enough alone. Gotta be workin' things over with a file or a stone or something. Boy, a little knowledge is a dangerous thing. (Shakespeare—or somebody.)

In trying everlastingly to improve the "trigger pull" they've really done a job, and I don't know of a better way to throw a revolver out of tune than to monkey with the sear end of the trigger. In so doing, it is probable that the sear has been shortened ever so little, yet just enough to prevent the cylinder from revolving enough, after the sear and hammer have made engagement. Brother, that's not the fault of the manufacturers. It was done when the sear was shortened in "improving the trigger pull."

If you want to see what really happened, remove the side plate but don't pry it off. Tap the side of the grip strap with a wooden block. The side plate will jump out of the frame slicker than a whistle. Make sure the parts are all in proper position and then cock the hammer slowly. See what happens? The hand that pushes the cylinder around doesn't move far enough in a vertical plane to place the bolt and cylinder in the proper position to lock. Yes, it'll work if you want to haul back hard on the hammer, but that doesn't do the gun any good.

The only thing to do is to get a new trigger. And to "improve the trigger pull" all you need to do is *polish* the end of the trigger sear so it is bright and smooth. DON'T CUT IT DOWN BY REMOVING METAL. *Polish* the sear notch in the hammer, too, for a still better pull. But do be careful not to remove any metal and throw things out of time.

Breaking In a Bullet Mold



You can build better bullets by breaking in your brass or bronze bullet mold via the heat treatment. I use an acetylene gas flame, but you may be able to use any other kind of flame available. I don't know because I haven't used anything but acetylene. But that works. I squirt the flame right into the mold and heat the blocks all over slowly and evenly. Heat them until they begin to discolor, but don't overdo it. I didn't warp my blocks, so don't you do it either.

Gun Taps

Ever use a "gun tap"? That's just what they call them in the catalog. Next time you have to tap a hole in that favorite rifle of yours, don't hesitate because of the toughness of the receiver or barrel metal. Get a "gun tap." If your local hardware or mill supply dealer doesn't have them, get him to order them for you. They come in almost any size or pitch.

These taps are made much heavier than ordinary taps, and they have only two flutes in them instead of three or four. But, boy, they sure cut sweet and clean. It's great to watch them send out the curls ahead of the tap. Looks more like the cutting of a drill that is ground just right. I find a gun tap particularly handy in tapping those tough actions the gun writers are so verbose about telling you how to drill. Then when it comes to tapping 'em, so sorry, they get writer's cramps.—AL MARCIANTE.

CHECKERING

To help you add that professional touch to your converted rifle—a compilation of the best previous *Rifleman* articles on this art

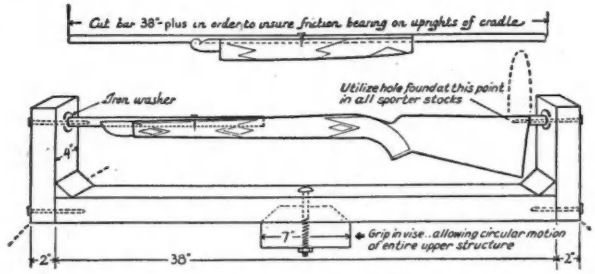
THE FIRST DUTY OF GOOD CHECKERING is to provide a nonskid handhold. The other attribute, nearly as essential, is to enhance the appearance of the piece. Furthermore, your gun assumes a pleasingly greater value in the marts of trade.

Checkering is quite an arduous task, but with practice the difficulties vanish and the tedium is leavened by a feeling of accomplishment. Gunsmithing is an art, and checkering is a highly specialized branch of the art. Checkering is to be undertaken seriously and not in a spirit of levity, unless you are fond of playing practical jokes upon yourself.

You can't very well checker without a cradle in which the stock is held during the checkering operations. The professional stocker is equipped with a substantial cradle built of wood and steel which cannot be duplicated by utilizing materials found about the average home, but for the present we shall not commit ourselves to that extent. You can build a serviceable cradle in a short time, and though it may make a noise like the mill wheel in a melodrama, it will serve you very well. A piece of two-by-four, a broom handle, a carriage bolt, some spikes, and a few hand tools for constructing, are about all that is required.

The sketch shows the cradle rigged for a one-piece stock. The supplementary sketch shows the method of handling the fore-end of a single shot: merely use more broom handle and a wood screw to secure the work. Revolver and pistol grips may be held in much the same manner, using a small bolt through the escutcheon hole.

A rifle or shotgun buttstock can be handled by drilling a three-eighths-inch hole in the butt, necessarily removing the butt plate and inserting a short, snug-fitting rod. Clamp the

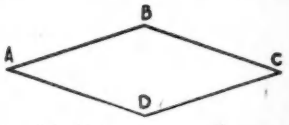

Cut bar 38"-plus in order to insure friction bearing on uprights of cradle
Iron washer
Utilize hole found at this point in all sporter stocks
4"
7"
Grip in vise...allowing circular motion of entire upper structure
2"
38"
2"

free end of the rod in the vise jaws; the buttstock will be held solidly, yet may be turned against the friction fit of the rod in the wood.

We come to this matter of checkering tools. "Tools" is too broadly descriptive; it lacks definiteness. The implements used are, in the final analysis, highly specialized wood rasps.

Primarily, for any particular checkering job, there are but three rasps with which we need be concerned: the V-rasp, the spacing rasp, and the border rasp. In addition, a bent Swiss needle file is useful in a supplementary way. These rasp sets, sold as such, usually contain a couple of V-rasps (differing in angle of cutting edges), three spacing rasps (for variously sized diamonds), a border rasp, the bent needle file, and a six-inch flexible steel rule.

The most satisfactory method of holding the rasp is to allow the handle to rest in the palm of the hand, extending the index finger somewhat along the top of the rasp shank. Individuals decide this for themselves, and differ much as they do in the matter of holding a pen or a pencil while writing.



On a piece of cardboard, draw a diamond four inches long. (Length should be three times width.) Cut it out and hold it over a well-curved surface of the experimental job, and scribe or pencil the outline, being careful that the diamond rests lengthwise with the grain of the wood. And for reasons to be seen later, the outside lines of any diamond design, or a design based upon diamond angles, should never be more than penciled or lightly scribed on the surface of the wood at the beginning of operations. This experimental work will pretty well embody the essentials of all checkering efforts, and all that follows, beyond this initial problem, is merely a detailed description of methods used in placing checkering on prescribed areas.

Returning to our experimental diamond, designate sides A, B, C, and D as shown. You will note that after being traced down, the diamond appears to be distorted, due to the curved area over which it has been applied. However, you *know* those lines are straight, so follow them and *have* diamonds. Seize your V-rasp with all the assurance you have now developed, and starting at D, rasp out line DA. Be careful to hold the rasp so that it is in a straight line with your forearm and absolutely parallel with the cut to be made. Consciousness of this requirement at all times is necessary to the control of the rasp. Later, in deepening cuts, this precaution will keep the rasp from leaving the cut and spoiling a few diamonds. Do not employ dash and abandon in scoring this initial line with the V-rasp. Nudge along in a forward-and-retreat fashion, continually advancing the cut. This enables one to continually check up on any tendency of the rasp to depart from the guide line. This first line, in any design, is the most important. It must be as straight as is humanly possible to make it because

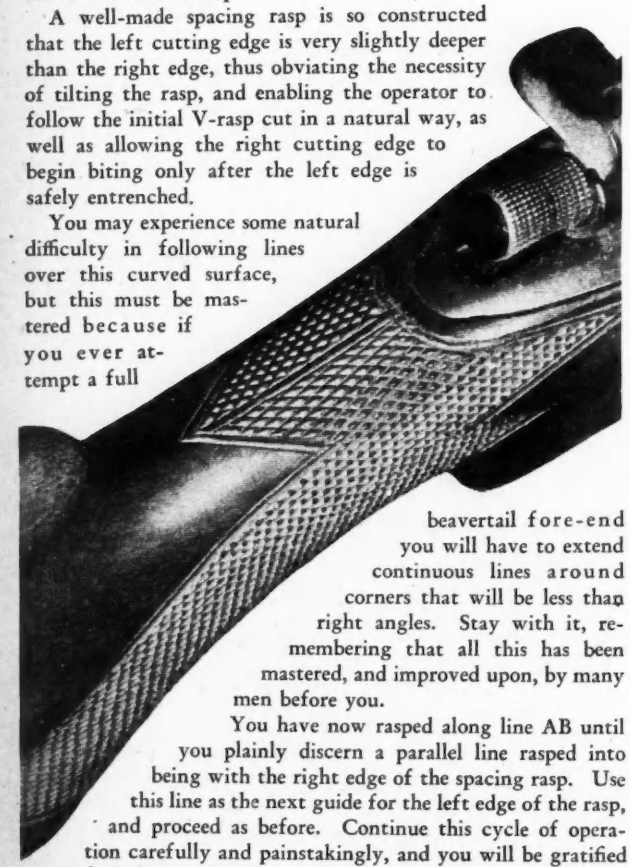
it is a master line, and any deviation in it is reproduced and even magnified in succeeding lines; and it requires real skill to rectify the mess you'd get into later on.

Turn the cradle and, following the initial procedure, cut line AB. Contrary to some belief, use only your right hand in handling the rasp. You may want to cover the job after it is done, but don't do it while you are working. Use your left hand to steady the work and to slightly rotate the work as the progress of the rasp dictates.

You now have DA and AB, two well-cut straight lines. Select your spacing rasp, preferably the medium one; about sixteen lines to the inch. Place the left-hand cutting edge of the rasp (left, in relation to your working position) on the line AB at A, and carefully follow the line previously established with the V-rasp.

A well-made spacing rasp is so constructed that the left cutting edge is very slightly deeper than the right edge, thus obviating the necessity of tilting the rasp, and enabling the operator to follow the initial V-rasp cut in a natural way, as well as allowing the right cutting edge to begin biting only after the left edge is safely entrenched.

You may experience some natural difficulty in following lines over this curved surface, but this must be mastered because if you ever attempt a full beavertail fore-end you will have to extend continuous lines around corners that will be less than right angles. Stay with it, remembering that all this has been mastered, and improved upon, by many men before you.



You have now rasped along line AB until you plainly discern a parallel line rasped into being with the right edge of the spacing rasp. Use this line as the next guide for the left edge of the rasp, and proceed as before. Continue this cycle of operation carefully and painstakingly, and you will be gratified to find that the last line in the area will, or will very nearly, coincide with guide line DC. At this stage you will have noted the wisdom of not having committed yourself to an initial deeply marked line, DC. The last cut on the area actually establishes this line, and the last cut will seldom truly fall upon the guide line.

Retaining the spacing rasp, turn the cradle to its initial position and use your previously rasped line, DA, as your guide. (All this, of course, in relation to a right-handed operator.) As the right edge of the spacing rasp begins to cut, you will see your first line of diamonds formed. Continue forming the succeeding rows of diamonds in this manner until your last cut arbitrarily establishes boundary BC of the experimental diamond.

Now, with the V-rasp, go over and deepen all the lines, twice over the area being considered a "once-over." Only actual experience will enable you to determine the amount of downward pressure to put on the rasp in making these deepening cuts; texture of your particular piece of walnut is also a governing factor.

While deepening, be very careful in approaching the edges of the design so as not to run over, although your border rasp will finally eradicate small crimes of this nature. Usually, about four once-overs will have sufficiently deepened the lines and shaped the diamonds to more of a point. Obviously, the lesser-angle V-rasp will permit you to secure greater depth of cut with minimum pointing of the diamonds. Whichever course you pursue, it is often desirable to finally smooth your cuts and bring the diamonds to more of a point with the bent needle file. On a dense piece of walnut, you may get the result desired with V-rasps only. Some checkerers make the diamond tops very sharp, and others prefer the tops a tiny bit flat. This latter method is after the manner of the English and is more resistant to battering than the sharp-top diamonds.

Taking up the border rasp, you now make a substantial cut all around your diamond pattern, using the extreme outside cuts of the design as the guides for the left edge of the border rasp. At the corners of the design allow the little diamonds to form that will be produced by the border rasp. Unless you have had some bad runovers, the rasp cuts in the pattern will all stop cleanly at the inside edges of the border. If you have no border rasp, simply make a deep, clean cut with the V-rasp (or spacing rasp, if you desire a double-line border).

Brush the whole job thoroughly with a stiff brush; a soft brass bristle brush such as is used on suede shoes is very good. Oil the checkered area with a 50-50 mixture of linseed oil and turpentine. This mixture penetrates the freshly cut wood and acts as a base for the linseed oil which should be brushed into the checkering afterward. A toothbrush that has seen better days is fine for this. Except with calculated intent, do not allow pure linseed oil to stand in the checkering, as it will gum and create some quite unnecessary work and words on your part.

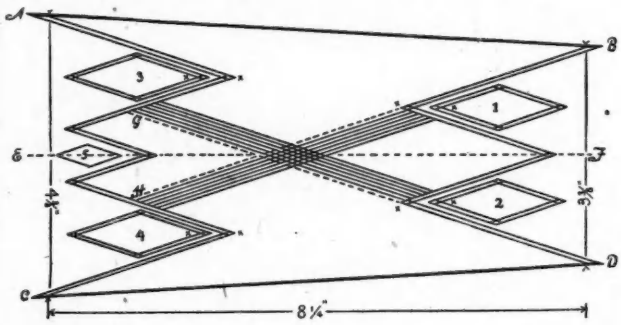
It is presumed that you have checkered a good diamond on that curved surface, and in the process have learned to go slowly and with well-considered movements. You have also learned a number of things that come only through personal contact with the problem.

For example, texture of the walnut reacts on the rasp after the fashion of certain kinds of paper under a steel pen. Some paper is hard surfaced and ideal to write upon, while other paper is pulpy and the pen stutters. There is some walnut, especially native, that should never be checkered. Unfortunately, this hard-to-checker walnut is present in quantity and, like the poor, will always be with us.

By following the accompanying diagram you may easily duplicate the pattern on a piece of bond paper. Cut it out, apply it to the fore-end, scribe around it, remove it, and begin the checkering. One man will be satisfied to do this without question, and another will look at the design and want variations: maybe a different arrangement of scallops or a small, uncheckered diamond area in the center of the pattern will appeal to his fancy. However, even the more venturesome man will benefit by using the outside dimensions as being correct to fit the area under consideration and will lay out his personal variations inside of the prescribed limits. It is understood that this method is applicable, in general, in arriving at *any* fore-end

design. Few fore-ends would be more difficult, while some, due to little or no taper, would be easier to work out.

Bend a piece of bond paper around the fore-end, just behind the front band and extending back to a point just in front of the forward guard screw. This establishes the length of the design on the under side of the fore-end. The points of the



design, on the top side, near the barrel, can extend farther back, and should do so to look well. With a pencil, mark points A, B, C, D, and then lay the paper on the drawing board and draw lines connecting the four points. You will have a keystone-shaped area. With a divider find points midway between AC and BD, and in that way determine line EF, which is the true center of the area as well as the center line of the fore-end. Now the drawing-in of the points, or scallops, is a simple procedure. Sketch them in roughly, freehand, to get an idea of allowable variations, being always subservient to the center line, EF. With a little maneuvering you can get a workable design, and then it is a matter of truing up the angles so that every angle in the pattern is of the same pitch. It will be seen that the taper of the fore-end introduces a factor that eliminates the possibility of duplicating the scallops of one end of the pattern on the other end. It is just as well, and the result is very much more interesting.

To secure well-proportioned diamonds it is necessary to indent the major angles of the pattern quite strongly, and that robs you of some checkering that would be quite useful, especially if you jam your hand up against the front swivel while shooting prone. A way to fill those deep angle areas would be to use more scallops, but that introduces a lot of little angles that look fussy and are hard to negotiate with the V-rasp. A suggestion would be to fill in these areas with smaller diamonds, 1 and 2, as designated in the diagram. The result is interesting, as narrow lines of untouched wood are seen between the major area and the small diamonds. Areas 3 and 4 are necessary to carry out this scheme, and area 5 can be either a plain diamond outlined with a V-rasp, or an ivory inlay.

It is a simple matter to establish master lines GD and HB; a survey of the area quickly discloses diagonal points the greatest distance apart, which will also include the longest curve.

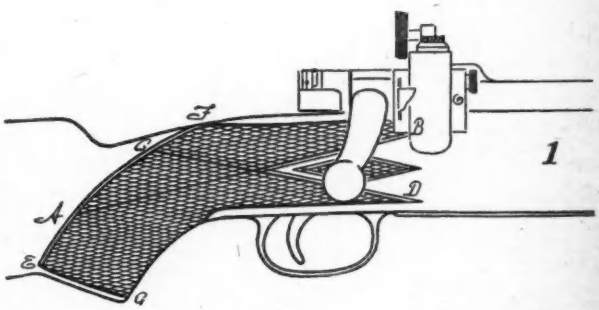
Cut out the pattern, retaining the supplementary diamonds 1, 2, 3, and 4 by only partially cutting them out from the main pattern.

Place the stock on the cradle, coat the design area with ordinary rubber cement, and affix the design before the cement dries, thus permitting you to shift the pattern about a bit and true it up with the axis of the stock. Then, with a sharp scriber and the flexible steel rule, scribe the outline of the pattern on the fore-end, making prick marks through the paper at points X where you cannot continue the scribe scratches due to the obstructing paper. Do not neglect to prick distinct marks at H, B, G, and D, as these points represent the terminals of your master lines.

Upon removing the pattern you will find the wood gummy with rubber cement, and as it dries roll it off with your fingers. The rubber cement contains benzol, which is a solvent for oils, and as the cement comes off it takes the surface oil with it and agreeably bleaches and cleans the area to be checkered. Using the prick marks as guides, you can now complete the smaller diamond areas.

You are now confronted with the task of flinging *straight* master lines over the curve of the fore-end. The safest way to do this is to take a piece of straight, thin board, such as a cigar box side, and cut it out so that the contour of the fore-end will fit into the cut obliquely. A great deal of "cut and try" can be eliminated by bending a piece of heavy lead fuse wire over the fore-end, connecting the terminal points of a master line. Lay this wire on the thin board, and trace the curve with a pencil; thus you can cut away the major amount of wood at one fell swoop, and all that will then remain to be done will be a little careful whittling to get a perfect fit. The lines will be straight, right over the hill.

From now on, all that transpires will be just between you and the fore-end. You will find yourself facing very few more difficulties than those which our practice diamond offered. Begin by cutting master lines HB and GD with the V-rasp and



continue precisely as previously learned. Watch your spacing rasp cuts to see that you do not forget to halt as angles of scallops appear. If the last cut of the spacing rasp does not fall exactly on the outline forming a scallop, always keep *inside* of the outline rather than outside. With patience and attention to detail you will be gratified to find how closely your final cuts, forming the outline, will coincide with the tentative outline.

It seems quite customary to form the border lines, such as AB and CD, by making a single deep cut with the broad-angle V-rasp or the bent needle file. This also applies to corresponding lines on the pistol grip, at top and bottom; these single-line borders being always near the edges of the stock. The application of this custom is clearly shown in the diagrams.

In No. 1 sketch (above), line EF is the most easily established line. Secure this line by bending that piece of lead wire into what you deem to be a suitable curve, and use it as a guide to scribe the line. Line EG should be scribed with the aid of the flexible rule.

The fore part of the design, containing the angle and the diamond, is determined somewhat in relation to the fore-end design. If you had seen fit to elimi- (*Continued on page 25*)

NO BLACK MAGIC

By ED McGIVERN

An unusually clear photograph of fast action. Mrs. McGivern shattering a high flyer. The thrower's hand, still raised, indicates the short period of time for delivering the shot.

SOMETIME AGO one of our leading western magazines advanced the theory that some leading exhibition shooters may have used explosive bombs of some sort (mebbe atomic bombs!) in their shooting of moving and aerial targets. These, it was suggested, could be exploded in some mysterious manner at just the right moment in exactly the right place when a shot is fired in their vicinity.

This is horribly reminiscent of the "hogwash" that allegedly accounted for the remarkable skill of such top-notch performers as Doctor Carver, Captain Bogardus, Annie Oakley, and Johnnie Baker, who amazed and bewildered the world during my younger days. This "romantic chatter" also permeated the atmosphere later in regard to the Topperweins and Captain Hardy, and Charles Flannigan of Montana, who also won great distinction in this field. So great was their skill that a skeptical world simply could not accept it without all sorts of fabulous explanations.

It so happened that I was considerably interested and also somewhat adept in this form of shooting, that is, shooting at all sorts of moving and flying targets. As a matter of fact, it has developed into something of a lifetime hobby. This romantic chatter regarding the shooting of these old-timers interested, amused, and also irked me no end. Eventually it became a challenge to label this doubting Thomas rot with its right name. After a long and careful study of the leading demonstrators in this field, I became firmly convinced that anyone sufficiently interested, regardless of age or build, could master all the fundamentals of such shooting in a reasonably short time by the application of sensible practical methods. And again, *if sufficiently interested* he may, through further study and reasonably persistent practice, be quite successful in mastering the extensive list of performances developed by us and presented in our book on "Fast and Fancy Revolver Shooting." Our success has conclusively established the fact that there is no mystery of any sort connected with the development of this skill. Disregarding fantastic theories and correcting false impressions which still exist, we can proceed with our simplified methods and secure results promptly. There is no hocus pocus to it.

A rather extensive program of experimentation was undertaken by us to determine just what are the qualifications for success in this kind of shooting. After careful planning, much special equipment was designed and developed to prove what we were after.

One of the first fallacies to fall in our attack was that of catching the flying target at the peak of its rise before firing. The idea has been to await the apparent stop at the top of the upward movement, then the shot should be fired during the slight hesitation before the downward movement began. This is nonsense. More than that, it is one of the most destructive ideas that the prospective aerial target shooter can acquire. It kills all possibility of mastering the shooting of multiple aerial targets. It is a handicap for shooting at targets moving in any direction except up and down. And then it is good for only one target at a time. No angle flights of any kind can be handled by this method. When from two to six targets are in the air simultaneously, a shooter trained to this thought would be lost. Targets just don't co-operate to this extent.

Placing six shots in a tin can tossed into the air was regarded quite universally as impossible to accomplish without the aid of "black magic." It was pointed out that no shooter had ever fired six shots from a .38 caliber double-action revolver within the period required for the can to fall fifteen feet. No shooter up to that time had been able to develop sufficient placement control to keep his bullets grouped within the area of a quart can even while stationary.

The adaptability of various weapons and ammunition to such shooting was a matter of serious consideration. We trained assiduously with both the Colt and Smith & Wesson .38 caliber double-action revolvers in an attempt to fire six aimed shots before the quart can hit the ground. These shots, of course, had to be held within the area the can presented as a target. This preparatory shooting was done on stationary targets and in due time we succeeded in consistently placing the six shots within the required area *in less than a second*. With continued practice we later made verified records of six shots in three-fifths of a second, and five shots in two-fifths of a second, all grouped within the outline of a playing card. Ten shots, five from each of two similar guns, one in each hand,

were fired in one and one-fifth seconds with each of the separated groups of five shots enclosed in the area of an ordinary playing card. This shooting was all carefully clocked by an electrical timing device. Thus, our first *impossible* barrier was conquered.

The next step was to place these six shots in a flying can. However, with plenty of previous experience on all types of aerial targets (including small milk cans, two and one-half inches by two and one-half inches in size) with various types of revolvers, this was not quite so difficult as it might seem. While this all may sound very simple as written here, it entailed the firing of 30,000 cartridges before we dared offer this feat for public criticism. Just try firing 30,000 cartridges in any kind of shooting, and you will get an idea of what sort of training we went through.

The trick of cutting cards edgewise in the air was developed by sawing slices from the ends of poles four or five inches in diameter, and tossing them into the air edgewise. At first these were cut about three-quarters of an inch in thickness, but as skill developed this was reduced and eventually we were able to cut special one-eighth-inch cardboard discs with fair regularity when they were tossed into the air. From cardboard discs we advanced to lead discs edgewise.

We developed aerial target shooting gradually in this to the point where we could handle up to six targets in the air at the same time. At first we worked on two at a time—"doubles." Then we took on three. From there it was only a question of two and two making four, then three and two making five, as illustrated herewith, then three and three making six when all conditions were favorable.

Expert throwers are vitally important to the shooter. A very capable revolver shot in her own right, Mrs. McGivern developed into a very proficient two-handed target thrower. With more extensive experience, she became very adept at throwing three targets with each hand. She also was very expert at tossing cans before we changed over to a series of traps with which the throwing was later done.

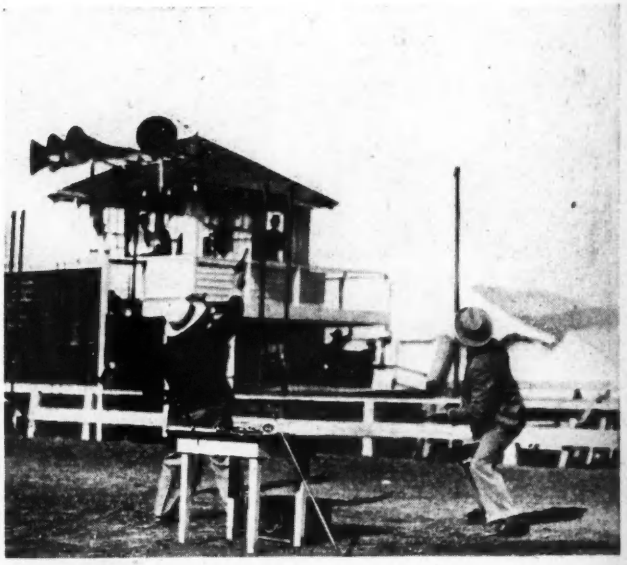
Our early training in aerial target shooting was with shotguns, then with rifles, and finally with revolvers. This was

PAPER PASTED OVER HOLES IN WASHERS
AND TOSSED IN THE AIR -
CENTER HOLDING
SHOOTING THROUGH THE HOLE OF THE WASHER
SEPTEMBER-1937

also the sequence in shooting aerial targets with the aid of—or perhaps better said, the handicap of—mirrors. At first we used short-barreled, open-bored shotguns. When we became adept with these we advanced to rifles and then to revolvers and pistols.

How small an object can be hit in the air depends largely on the quickness and accuracy of the shooter's eyesight as well as on the precision muscular control for bullet placement developed by him. Usually any object which can be seen clearly can be hit. And this brings up another point which is the basis of all our training.

We found that a more dependable substitute for the mystery and hocus-pocus idea was a careful study of anatomy and the



Upper Right: Breaking three targets at once at the Central Montana Fair using gun with low sight adjustment mentioned in article, Reserve gun for incoming and high overhead targets is on table behind the author. Above: Firing six shots into a can tossed up 15 to 18 feet.

body movements involved in gun handling. The ingredients of success here as in other fields of sport and athletics are the development of natural and physical co-ordination, and careful training for intelligent control of these basic body movements. Systematic control of impulse and response leading to precision muscular activity is a prerequisite to this type of shooting.

The movement permitted and controlled by the vertebral column was also given more than casual study. A knowledge of these movements became more vital as we realized their importance in replacing the usually erratic free gun hand and arm movements with positively controlled body movement. We studied the move-

ments of boxers and consulted with many boxing instructors. It was our good fortune to have, among others, Claude "Chuck" Pentecost, middleweight champion of Montana, co-operate in our research. He was one of the fastest moving boxers I have ever seen and his hand movements were amazing. His co-operation demonstrated quite effectively the relative value of combining body movements with hand and arm movements as against the latter alone.

The problems of combat shooting are much the same as those

Illustrating the importance of an expert thrower to an exhibition shooter. These photographs show (left), a three-target toss and (right), a two-target throw for two-gun aerial shooting. Mrs. McGivern is doing the throwing.

of boxing and exhibition shooting. It would be almost as bad as losing a gun battle to fail to perform successfully before an audience. The humiliation would be almost as severe as physical injury. It may be possible to recover from battle wounds, but never from a "flop" in any sort of a public demonstration. Any system developed by us, therefore, had to be certain of results. Failures are long remembered by an audience while "well-hitten" targets are soon forgotten.

Many writers lay great stress on "lead" or "holding ahead" in wing shooting of any kind. Some claim that lead is the most important thing connected with shooting at any sort of rapidly moving target. However, my varied experience leads me to the firm conviction that elevation is the most important factor in shooting of any sort. Any system of leading without due consideration to elevation is bound to prove erratic and unreliable. This we hope to make clear by the accompanying action photos.

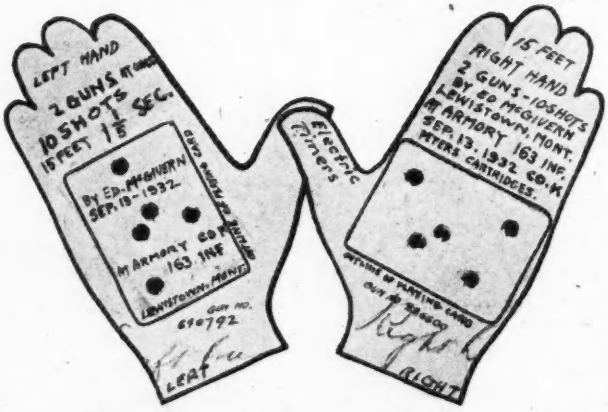
Our system of studied body movement combined with thoroughly mastered gun manipulation gives ample consideration to proper elevation on all targets. This has so simplified the problem that aerial targets seem to offer little more difficulty than do stationary ones. And it enables anyone sufficiently interested to become proficient in the handling of flying targets.

Accurate sight adjustments are very helpful to consistent success in this as in other kinds of shooting, "chatter" to the contrary notwithstanding. We use two systems which we consider important to the aerial target shooter. One system raises the bullet's point of impact approximately three-quarter inch above the line of sight at fifteen feet and the other drops it three-quarter inch at that distance. The former is used for incomers and similar targets, while the lower adjustment is for falling cans and other dropping targets.

That is our way of adjusting sights but they may not suit everyone else. Each individual should study his own peculiarities and make his own adjustments accordingly. We have found that, for us, this system is more reliable than depending entirely on what is generally regarded as the technique of point shooting alone. Many others who have been under our instruction have also found this system satisfactory and dependable. The illustration showing three aerial targets being shot at the Central Montana Fair at Lewiston shows also an extra gun on the table behind shooter, which is sighted for incomers, high overhead targets, and aerial targets thrown from moving autos, et cetera.

It may be well to point out here that an object moving is caught more quickly by the eye than the same object sitting still. This is true regardless of the background. But when that moving object is clearly defined against a neutral or clear background such as the sky, the eye focuses instantly on it and full attention is given to it without conscious effort. Under such circumstances, the gun can be lined up instantly and brought into direct relationship with the target with no optical problem to hinder. There have been many interesting occasions when "Johnnie Sure Shot" just knew he could hit five stationary targets in much less time than *any* aerial shooter could hit five similar-sized targets in the air. We always admitted it "could be." But Johnnie was not always successful.

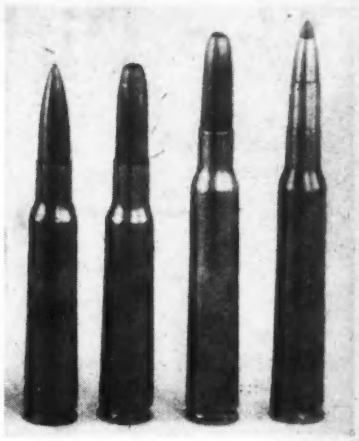
A very interesting but not so well understood optical problem involving clear discernment of the target arises in point shooting with both eyes open but without conscious use of the sights. Only a narrow margin exists between such point shooting gun alignment and that of the *(Continued on page 28)*



Ten shots—five fired from each of two guns at the same time in one and one-fifth seconds, distance fifteen feet. Fired at American Legion Headquarters, Lewiston, Montana. Groups within area the size of playing card.

My friend, the late William Krippner, was the most scientific hunter and one of the best riflemen I have had the pleasure of knowing. He was an informed and enthusiastic sportsman who made two big-game hunting trips into Canada practically every year. But he was modest to a fault and we had a time of it to get him to write this article. Afterwards, he withdrew the article until after the war because he had anticipated an anti-German reaction to publicizing the fine arms and loads he imported from Brenneke in Germany. Unfortunately, Bill succumbed to a lingering illness before the end of the war.

His widow very kindly turned the manuscript over to us recently and, in accord with the views of several of our mutual friends, we believed it should be published posthumously as a sort of memorial to Bill, although it is pitifully little for honoring one who merits so much.—F. C. NESS.



A comparison of the Brenneke bullets—L to R: 7 mm. Mauser 139-grain; 175-grain Mauser; the Brenneke 7 x 64 mm. 175-grain H-Jacket; Brenneke's 177-grain S. P. Torpedo

The Brenneke 7 mm.

By WILLIAM KRIPPNER

IN BRENNEKE'S 1932 CATALOGUE, as if in answer to a prayer, appeared a series with accompanying photographs showing lion, buffalo, and rhino—the majority of them killed with one shot at distances varying from quite short range to well over 350 meters. In the catalogue was given also a detailed description of the method Herr Wilhelm Brenneke, the famous bullet designer and manufacturer of Leipzig, Germany, employed in the construction of his unique bullets. Brenneke claimed that, in addition to superfine accuracy, these bullets were so designed as to perform three separate and quite distinct functions upon impact with heavy, big-boned animals, with equal effectiveness at short as well as at extremely long range.

The performance of the Brenneke bullets is a direct result of the unique construction developed and patented by the manufacturer. Briefly, the front half of the inner core of the bullet is very soft. This has a certain amount of penetration after which it deforms and completely flies to bits. The next section of the inner core is much harder, attains deeper penetration and has tremendous bone-smashing power. The third or rear end of the core, including the base, is extremely hard. This part of the bullet keeps on plowing through, making and leaving a large exit hole. This last feature was designed to give the much desired blood trail in case of a poorly placed shot. The jacket near the nose is very thin, and gradually thickens toward the base. These bullets are made in 7 mm., 8 mm., and 9.3 mm. The cases of each of these cartridges are 64 mm. long.

After reading the Brenneke catalogue a half-dozen times, I must confess I was skeptical about accepting all of the claims made for these bullets. If, on the other hand, it were true that his bullets could be depended upon to combine superfine accuracy with consistently reliable killing power on our biggest game at distances of 300 yards and over, and especially if this combination could be obtained without punishing recoil, it would indeed be the ideal bullet for certain sections in British Columbia where long shots at big game are the rule rather than the exception. But how much of the catalogue could I believe?

At the time of my indecision, my pet was a beautifully stocked, remodeled match-barrel Springfield. It had done good work with the 180-grain, open-point, expanding bullet at distances up to 250 yards on grizzlies and other big game on four hunting expeditions into British Columbia. The rifle was carefully sighted in from my favorite sitting position to hit where I held at 200 yards. With this sighting, plenty of range practice had taught me where to hold up to about 300 yards.

Regardless of the small groups a Springfield is capable of, experience had taught me not to attempt shots at big game at distances over 300 yards. A few exasperating failures seemed to indicate that the ammunition lacked the necessary killing power at these distances. The incident which made me decide finally to adopt a more powerful cartridge occurred in northeastern British Columbia.

My first shot, at a bit over 300 yards, knocked down a full-grown grizzly. The animal was up again in a second. My next shot missed. A few hours later we tracked him for over a mile, up and down the mountain, through thick alders, and finally gave up in disgust. I felt badly for having wounded a noble animal. A clean miss would have been preferable.

You may ask, why risk a shot at 300 yards?—why not stalk such game to within 200 yards? It goes without saying that this should be done where possible, and there undoubtedly are hunting grounds in British Columbia and Alberta where it may always be possible. But at the same time there are sections in British Columbia where such conditions do not exist. These conclusions are not based on only one or two hunting trips. They are the result of close observation during my eight hunting expeditions in the Selkirks, a mountain region far more rugged and steeper than the Canadian Rockies, where the season from snow to snow extends only a little over three months, during which time alone the peaks can be climbed in safety by amateur mountaineers.

The main attraction of the Selkirk Range is the goodly number of silvertip grizzlies *(Continued on page 29)*

The Ridge-Runner Reflects—

Some more tales in the Back-Tracking series. Now—Semiautomatics

By GERALD AVERILL

ONE OF THE FIRST SEMIAUTOMATIC RIFLES that I had the dubious pleasure of meeting showed up in the tall timber around Pittston Farm in 1915. A hunter by the name of McKeon bought it new, and to hear his comments on its origin (he called it "abortion") and probable destination was a liberal education in the art of saying naughty words.

Mr. McKeon was one of those extremists I have mentioned in the past. He jumped from a well-broken-in .32-40 Savage with a very light trigger pull right into the complexities of this self-winding contraption with a pull which might be called a "haul." In the beginning, the gentleman was not so much angry as he was hurt and grieved when, as he put it, "I laid her onto the brisket of a damned, great, fat doe, big as a two-year-old heifer."

Said Mr. McKeon, "I put the bead onto her, tucked it down into the notch, hild my breath an' tightened up on the trigger. Warn't no give to her so, thinks I, the jeesely safety is on. I felt around with my front finger and found it warn't. By this time my wind was gone and the sights was offen the deer so I drug in another lungful an' begun to haul on that trigger again. I dragged an' I hauled an' jest when I was ready to bust, I give a hell of a yank an' flinch an' that damn thing begin to unwind. Felt like the carrier of a Lane Portable Saw Mill startin' out with a saw log onto it. Sunthin' give a hell of a hitch an' a lurch all mixed up with the sound of the shell goin' off . . . cussedest piece of machinery I ever see. Bet you take her apart an' you'll find five pounds of clock-works into her guts. Scared that deer damn near to death. She didn't know I was anywheres around an' she went over backwards into a brush pile and like to have broke her neck before she got out. Now, young feller, if you want to buy a right enterestin' piece of machinery. . . ."

"I dragged an' I hauled an' jest when I was ready to bust, I give a hell of a yank an' flinch an' that damn thing begin to unwind like a saw mill."

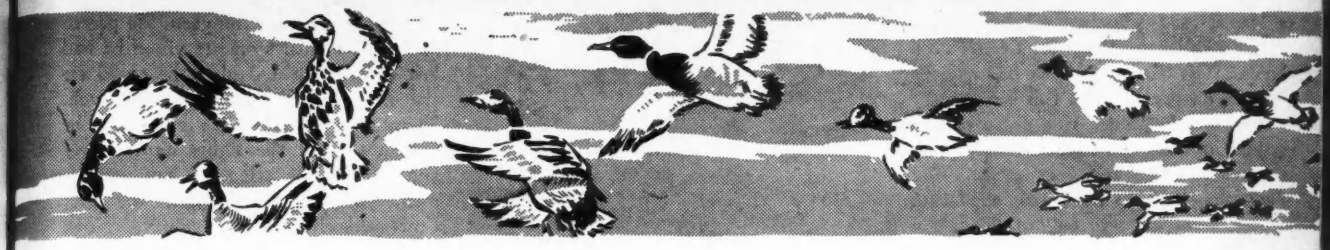
I wouldn't buy, but I did borrow, and Mr. McKeon's remarks (somewhat censored) represent my own views without much further comment. The pull on this innovation was around fourteen pounds, I should say, and the slap of the operating rod—very disconcerting to say the least.

Later on in life when I had become more tolerant and also more familiar with automatic arms, I found one of these rifles with a decent pull that would shoot into three inches at one hundred measured yards. It was owned by a guide who had worked up quite a reputation as a deer killer with it, and he probably would have gone happily on his way if certain of my remarks had not gotten under his skin. After some discussion and argument during which I often referred to the .351 as a pistol cartridge, he bought a new Model 54 Winchester in .270 caliber. He had a good scope put on it and long after I left that part of the state I received a letter of thanks from him. I also heard indirectly that he was scattering deer hair quite freely.

Folks should get away from the impression, though, that Maine hunters are predominantly lever-action users. The older woodsmen and farmers cling to their 94 and 99 Models because they are used to them and can't afford to acquire more than one rifle during a lifetime. The younger generation, as well as the business and professional men who can afford new equipment, have adopted the automatic to a very great extent. The Remington Model 8, or 81, as it is now called, has a very wide distribution. This model in the .35 caliber is now found in the hands of a great many guides, and is also very popular with the professional hunters and poachers.

When this particular model first began to appear, there were quite a few of them in .25 caliber. The first time I ever encountered one was at a shooting match up at Seboomook and, although I won the match with a borrowed Springfield Sporter, a guide with a .25 Remington shot a group just outside the bull on his target at six o'clock that made mine look silly. If that group had been up in the black, it would have been a possible. It was only one of many tight groups that I have shot and seen shot with the Model 81 since.

Both the .25 and .30 calibers were quite popular for a while, but probably nine out of ten of these rifles now in use are chambered for the .35 caliber as this cartridge has proved to be very rough on all Eastern game. This .35 Remington in the hands of one temperamentally suited to it is a very deadly weapon and has accounted for a lot of game. It may sound a trifle strange to connect temperament with the use of a certain type of weapon, but I am quite positive that certain individuals are, by nature, totally unfitted for the use of automatic weapons in the field. In making this statement, I hasten to include myself. Put a good Model 81 in my hands and run half a dozen deer by me, and I would shortly be in jail simply because I would be shooting as long as there was anything left in the gun. It took me no time at all to learn that in a few seconds I could spoil as much meat as two good men with hand grenades.



Now, I can work a bolt with some dexterity, but the fact that I *have* to work it steadies me down and lets me take a look at what's going on out on the receiving end. With the automatic I react just about the same as I do in a Rapid-Fire match—try to get all the shots in as quickly as possible. My fault is unnecessary shooting, but not *wild* shooting.

I spent a lot of time and money playing with both the .25's and .35's just to see how fast and accurate they were. I have seen how deadly the automatic can be, and I have also seen what a blessing it can be to the ammunition dealers when put in the hands of the novice or the casual hunter who shoots only at game. I saw one of my local poachers, who had worked up quite a reputation for being smart and tough, fill the air full of lead one day while a big buck ambled across an open field quartering away from him at about a hundred yards' range. He had a brand new .35 and went completely trigger happy, letting his shots go so fast you could see the muzzle climbing. I enjoyed the performance immensely but he seemed rather put out about it. Said he knew I was watching him and it made him nervous, but since he professed to fear neither man, beast, nor game warden, I thought the alibi rather feeble.

I think this urge to dump the contents of the magazine rides the shotgun shooter as bad as it does the man with the automatic rifle, if not worse. I used to hunt grouse with a man who habitually fired all three shots from his Sportsman 12 when a bird went up and I have seen him kill a lot of birds with that last shot. I was shooting a double at the time and had quite a lot to say about wasting shells, making unnecessary noise, et cetera, but when I shifted from the double to the Poly Choked Savage that I am now using, I found myself spraying the landscape freely and enthusiastically. A sincere desire to find out just what this patent choke on the business end of an automatic would do caused me to steady down, and I will say that in the hands of a fair shot the outfit is simply murderous, especially on ducks.

Last season, shooting from a shore blind at birds which swam in on the tide, I averaged two big blacks bagged to every three shells expended. I am not an habitual duck hunter nor an expert with the shotgun, so I considered this some kind of a record for an amateur even though the shooting was much easier than at birds flying overhead. In this case I had one chance a day; the birds either did or did not come in near the blind. If they did it was a case of stand up, sort out three birds as they went up, and start shooting. Twice during the season I dumped three birds with three shells and began to see why Mr. Whiskers demanded that I plug my gun so the magazine will hold only two shells.

During the opening morning of the 1943 season my partner and I, both using Poly Choked automatic 12's, downed eighteen fast-flying teal in about as many minutes, but we used quite a few shells doing it. Twice we got onto the same bird and practically ruined it, and twice more I got trigger happy and smacked the same bird with a second load. The remarkable part of the affair, though, was that we did not put down a single cripple. All our birds came to grass with hardly a kick left in them, definite proof of the even and deadly patterns turned out through the changeable choke tube.

This automatic business kind of sneaks up on you, no matter how conservative you are. It seems as if the man who uses a self-loading shotgun is more or less committed to the same type of rifle. I know that several times after having used the shotgun during the bird season, I found myself trying to squeeze the second shot out of a .250 Savage without working the lever. But I may be one who acquires a habit too quickly and easily. I have heard a lot of arguments against the use of these quick-firers and I think that on several different occasions legislation has been attempted against them on the grounds that they are too deadly on game. There is some evidence to support this argument and we will probably hear more and louder squawks as time goes by.

Now, you turn loose weapons such as the Winchesters and Remingtons among a lot of different kinds of people, some of whom are not too careful, some who get a touch of the buck, and a few who just don't give a damn, and you are bound to get some amusing anecdotes. I know a man who will swear on a stack of Bibles that he saw the owner of

I used to have quite a lot to say about waste and unnecessary noise, but when I shifted to the automatic that I am now using I found myself spraying the landscape with abandon.

a loaded .401 Winchester bring it into a camp and hang it by the trigger on a hook. The hanger or hook had a sharp upturn on it and when this bird let the weight of the loaded rifle down on the trigger it went off, kicked violently up against the iron and continued to fire until the six shells in it were expended. He said the air was full of hardwood splinters and that it was quite a sight to see six big men trying to get through a door that opened inward. The man who owned the gun just froze there and let her rip.

I don't think there is any question about the story told of a trigger-happy gentleman down near Standish preserve. He parked a very fancy Cadillac off a wood road, covered the radiator carefully with a grey blanket, and went merrily off into the forest to shoot himself a deer. He saw several deer and shot at them, but his new Remington 81 Woodsmaster didn't seem to be shooting where he looked. Considerably keyed up along toward dark, he worked around in the direction of his car, caught a glimpse of grey through some brush, and up and let go the contents of the .35 into the front of his car. If it had been a buck he probably would have missed, but he hit that grey blanket with every shot.

The man that I really want to tell you about will have to remain nameless although I know him very well, indeed. You will see that this must be so when you finish reading about him. It took quite a lot of persuasion to finally bring forth the facts. This gentleman from Cornish, Maine, got badly bitten by the automatic bug. Most of his associates had Remingtons, so in due course, he traded in his tried and trusted Savage .303 toward a nearly new Remington .35. I understand that this transaction, plus the black market price of ammunition, bit deeply into his cash reserves, and because of this the gentleman did not indulge in any such frivolities as sighting in or running a few live shells through the action. He did know how to put shells in and how to get them out again, and that is about all.

Well, our friend got up at dawn one miserable November morning when a man would best employ his time by a little refreshing sleep, and sallied forth with his new Remington to get himself a deer. He was lightly clad, the weather was cold, and before long he was thoroughly miserable. I hesitate to call him an *old* man, but he was certainly past the age where the warm blood of youth enables one to brave the elements hatless and with one's chest bared to the breeze, so after some preliminary skirmishing he made a circle in the direction of home and a warm stove. But always the hunter even though his joints ached and his eyes steamed a moisture that fogged his glasses, his searching, if somewhat bedimmed, gaze spotted a slight movement in a stand of hemlock. Off came his mittens and up went the Remington. He peered and looked until by what vision he had left through misted glass, he could see the neck and head of a nice buck. Trembling a little with eagerness, he somehow lined the sights on the deer and pressed the trigger. Yes, gentlemen, you've guessed right the first time—the chamber was empty. Now, with fumbling, frozen fingers, our hunter grabs the bolt knob, furiously yanked back the bolt and fed in a shell just as the buck took off. The loading of the shell and the firing of it came almost in one motion, and as the deer disappeared our friend bounded wildly off in pursuit of it. He did not bound very far, for there are very few men past middle age who can keep a frightened deer in sight for any length of time. Sadly and somewhat belatedly he returned to the beginning of this tragic scene and began to look for signs of hair or blood. He found no hair, but during a period of feverish and aimless circling, he did find a bright crimson drop of blood—and then another and another. The ground and everything on it was frozen to a flinty hardness. There was no snow, no track that one could follow, just this infrequent appearance of blood, and with true Yankee stubbornness our man settled down to follow it to Kingdom Come with a deer at the end of the trail.

After half an hour of commendable perseverance, he found that he was getting nowhere fast. He circled and cut corners and it seemed that he would never be able to get that trail to line out in the direction he wanted it to go. He became irritable and confused, and just as he was about to give up he found some more blood. Keeping his nose carefully to the ground in another half hour of intense trailing, he found his empty shell. He was right back where he started. Pausing wearily to ponder on this disconcerting fact, he felt a slight pain in his left hand and, looking down at it, he discovered that it was pretty well smeared over with fresh blood.

"You know, Gerry," he told me solemnly, "if it had been a mite warmer and I hadn't come back to that empty shell, I would just as sure as Hell bled to death follerin' my own blood trail."

The gentleman had been in the habit of grasping the Savage close up to the trigger guard for a quick shot and being unused to the Remington when he fed that shell into the chamber so hurriedly, he fed a portion of the middle finger of his left hand along with it.

Strangely enough, he did not blame the rifle. "Hell," he said. "Any automatic that will feed a shell and a quarter of a pound of meat into the chamber at the same time and still fire must be all right. Good enough for me, anyway." ♦ ♦ ♦

Checkering

(Continued from page 17)

nate the small diamonds in the fore-end pattern, you would also dispense with the small diamond in the pistol grip design.

You may not care to extend the pistol grip design so far forward under the bolt handle, especially if the arm is used more for sporting purposes. If you shoot with your thumb along the stock this gives plenty of traction. This elongated pistol grip design looks well on the .22 Springfield, due to the long receiver lines. The 52 Winchester with its short receiver would not lend itself well to this treatment.

Master lines AB and CD are clearly shown and are subject to the diamond angle. You'll be surprised to find that after a little practice you can form a suitable angle without any reference to mathematical proportions. This, and other little abilities, are signs that you are becoming proficient in the art of checkering.

Sketch No. 2 is necessary, but self-explanatory. If you do not care for the inlay, it is a simple matter to arrange the design so that the points of the pattern will more nearly touch on the top of the grip.

Number 3 shows the region of potential trouble. Use the flexible rule to pencil the center line AB, and scribe in your border lines subject to this center line. Keep these border lines five-sixteenths inch apart, and if you really want to avoid trouble, make them three-eighths inch apart.

This under-grip area is cranky to checker under the best conditions, and if you have previously taken liberties with the master lines, you are in a regal mess by the time you are swinging lines under the grip.

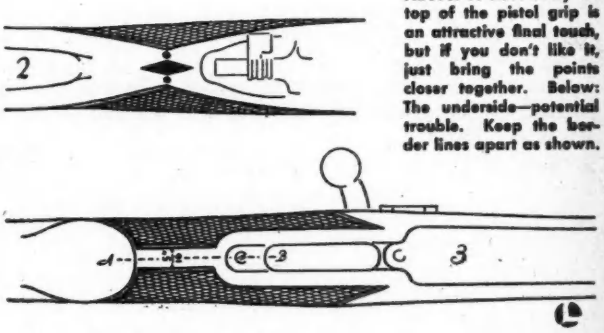
The calmness and method necessary to good shooting are your assets when you are confronted with the difficulties of checkering. Know the rules, keep going, and avoid making the same mistake twice.

You will note that the checkering pattern conforms to the curve of the rear of the trigger guard. It is on border curves such as this that you will find greatest use for the bent needle file. Do not, at any time, cherish the idea that you can attain speed during any part of this work. If restraint and patience are incorporated in your make-up, you will need them and will appreciate possessing them. It may be also that checkering will cultivate these qualities, and in that case the experience you have gained will have been *very* valuable.

To get back to inlays—in the case of a round inlay it is best to drill a hole in the wood the size of the desired inlay, and then make a tapered peg of the inlay material. Coat the peg with a good transparent cement or glue, and tap it into the hole. The taper insures a perfect fit. Next, the diamond. Lay it out on a piece of bond paper, and then cut it out, very precisely. The inlay material should be about three-sixteenths inch thick, and upon this firmly affix with rubber cement your little diamond. With a small, flat, broaching file, shape the inlay to conform with the pattern cemented on the top side. Slightly taper the sides of the diamond, toward the bottom. Place the inlay on the space it is to occupy, and scribe very carefully around the base; the base having a slightly smaller area, due to the taper.

Make a pencil mark at a point of the diamond on the paper pattern which is still cemented to the top of the inlay. This is done because the diamond is not exactly true, and later, in making trial fittings of the inlay in its cavity, it is essential to see that the marked point of the inlay matches its point in the cavity. If the diamond were turned hind end to there is small likelihood of its fitting the same, due to the natural small errors in hand-shaping the inlay.

With a small chisel cut out this diamond outlined on the wood, being very careful to keep your cuts *inside* of the scribed outline. Excavating the cavity requires care and patience, and often a couple of little drill holes in the area will be an aid to removing the wood. Make this cavity one-eighth inch deep, and occasionally try to fit the inlay, to see that all is well. Gradually you will find that the inlay will snugly enter the top of the cavity and can only be removed with difficulty. Coat the bottom and sides of the inlay and its cavity with cement or glue, and drive the inlay home with light taps of a mallet. Next day file off the excess of inlay material extending above the surface of the wood, finally polishing with #400 wet paper abrasive, or on a buffing wheel.



Above: A neat inlay on top of the pistol grip is an attractive final touch, but if you don't like it, just bring the points closer together. Below: The underside—potential trouble. Keep the border lines apart as shown.

Tastefully placed in a design, inlays are very "doggy," and amply repay you for the small work involved.

Lastly, here are some suggested methods of correcting small accidents that may occur during checkering. Occasionally a diamond or two may break out, especially in the lower grades of walnut. Sometimes a piece of fine walnut on a custom job will develop small holes upon being finished, which were not evident in the blank. Professional stockers usually inlay a small piece of wood to cover the hole, and checker over the plug. In the finished checkering this plug is barely discernible. Some have successfully used Plastic Wood, walnut color, which comes in tubes. Merely pack the paste onto the area to be repaired and allow to dry. This area can easily be rerasped, and when the checkering is oiled there is no evidence whatever of the patch. Do not depend upon Plastic Wood as a cure-all and allow the knowledge of its availability make you careless. ● ● ●

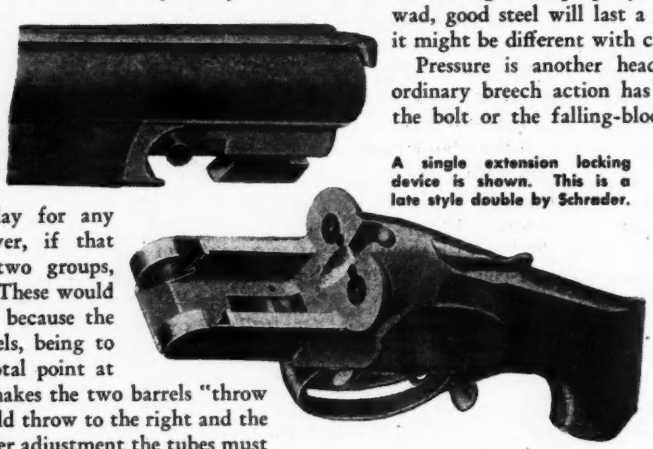
"Shor! That coyote's howlin' 'cause he's mad. . . . Yor fifth shot threw dirt in his face!"

DOUBLE RIFLES R. I. P.

By G. F. H. KONIG

LET ME STATE AT THE BEGINNING that these notes on the double rifle better be taken as reminiscences for it is an open question whether these costly weapons, the acme of the gunmaker's art, ever will be made again. The demand for them is limited, and their construction requires such long experience, quite apart from mechanical skill, that it might not be feasible to try to assemble a staff of trained craftsmen able to turn them out to perfection. And only a perfect double is worth having. If it cannot be relied upon to "shoot together," it is not only useless but downright dangerous.

There is no known method by which a double rifle may be turned out by machinery. Each rifle is a separate job which must be regulated by trial and error, and by a man who really can shoot—a sort of human machine rest.



A single extension locking device is shown. This is a late style double by Schroder.

At first thought it might be supposed that it is necessary only to get the two barrels absolutely parallel to each other—mere child's play for any experienced maker. However, if that were done we would get two groups, inches apart, on the target. These would be at three and nine o'clock because the recoil of the individual barrels, being to the right or left of the pivotal point at which the recoil is resisted, makes the two barrels "throw wide." The right barrel would throw to the right and the left one to the left. For proper adjustment the tubes must be set at a slight angle so that their axes will converge anywhere from twelve to twenty yards ahead of the muzzle.

The problem of regulating the barrels is an individual one for each rifle. Moreover, changing ballistic factors can alter each individual rifle from time to time. For example:

Most of the heavy-caliber doubles are used in the tropics and, unfortunately, all modern powders, cordite in particular, are influenced by heat and become faster. Naturally, up goes velocity. Consequently, the trajectories from the two barrels do not converge at the point determined on the basis of the lower velocity. One would imagine that the increased recoil resulting from the increased velocity would compensate for the bullet emerging from the barrel faster, and that the outward throw thus would remain about the same. Unfortunately, this is not the case and the bullets are less affected by the outward thrust in the case of these higher velocities. Therefore, the heavy doubles usually are designed to throw their groups a few inches apart at 100 yards, and then at the higher temperatures they again will "shoot together." With rifles taking the Magnum, high-velocity cartridges, this trouble is not so evident, but my old .375 which was regulated for fall hunting will throw its shots about two inches apart on a hot summer day in Virginia.

Similar difficulties are encountered in making the barrels "shoot together" when an attempt is made to change other factors such as bullet weight or powder charge after the rifle has once been regulated.

As I said before, cordite is the chief offender. Then why use it? In the first place, it was only in recent years that nitrocellulose powders were made sufficiently stable for use in the tropics when stored for any length of time. A good example of this was Pyro D.G. which, when stored in even moderate climates, would disintegrate into a fine brown dust. Now, however, these smokeless powders have been developed to a stage where they may be stored safely anywhere. The often-mentioned barrel-eating propensity of cordite has, I think, been much exaggerated. If the cartridges are properly loaded with a good heavy jute wad, good steel will last a long time with them, although it might be different with calibers under .350.

Pressure is another headache for the gunmaker. No ordinary breech action has the natural strength of either the bolt or the falling-block actions, and in consequence only the very best materials and the most careful workmanship will give satisfaction. There were any number of different types of breech actions used in double rifles, but in the main there seem to be two schools of thought. Some gunmakers rely upon a heavy top extension which fits into a deep slot of the action body; others object to this as weakening the standing breech. The main point is, of course, to relieve the strain upon the angle of the bar, the weakest point of all breech actions.

The famous old English gunmakers, Holland & Holland, achieved a very successful action with a solid projection between the two barrels, and a slot in the action face. When the rifle is closed, a bolt in the standing breech slides over the projection and, being supported on all sides by solid steel, it counteracts any tendency of the bar to bend at the angle. The rifle is fitted with back-action side locks which leave the bar itself more solid than either bar or box locks. In their latest models Holland & Holland have further strengthened the bar with additional metal at the angle. It looks neat and the weight is nothing. My rifle is now over thirty years old, just as tight as ever, and it has never changed its zero.

Continental makers were up against a somewhat different proposition. Until about forty years ago their customers did not call for very powerful ammunition, and it was only when the great Mauser cartridge, the 9.3-62 came out in rimmed form as the 9.3-74 with comparatively high pressures, that a demand arose for doubles to handle it. Their barrel steel had always been fully up to the best English products, but their actions were not. The small gunmakers, largely using a foot lathe, required soft materials and that stuff would not stand up. So it was natural that some makers looked around for a structurally stronger action body and fastening, and two very

successful developments were the result—the Trunnion, and the Kersten or double Greener action. In the former, the conventional hinge under the barrels was replaced by two heavy trunnions, forged integral with the tubes. The result was that the main support was placed outside of the axes of the barrels and in direct line with the stress under firing. This relieved the strain on the angle of the bar. This fastening was quite successful and is still made by the successors of the inventor. Its chief fault is that in the side-by-side type it is a broad, clumsy action. It never became overly popular in spite of its undoubted strength.

The Kersten action met with instant favor. On this action the side walls of the barrels are extended beyond the chamber in the form of two flat projections which fit into slots in the standing breech. They are locked by a double through bolt. Here again the support lies outside of the cartridge and mechanically this is probably the strongest fastening known today. When the over-and-under action became popular, the Kersten really came into its own. Even Purdey adopted the principle. Naturally the U-shaped bar of the over-and-under is stronger than the flat bar of the side-by-side gun, and the additional leverage of the top barrel is effectively counteracted by the double extension. It was then only a matter of time before the two fastenings were combined to achieve just about the ideal in breech construction.

The lower barrel with its two trunnions really forms the lug for the upper, and both are locked in direct line with the strain. For them to spring away from the standing breech is pretty nearly impossible. What that means for a double rifle is easily seen. The lower tube naturally is the master barrel and, since both are lying in the same vertical plane, it is necessary only to incline the upper barrel to a point where it will "shoot together" with the lower at a predetermined range. There is less tendency to "throw wide," and I have been told that this construction is affected far less by either a slight variation in the charge or by temperature. Given first-class material and workmanship I should say that it represents a definite improvement, and even with the finest side locks it can be made somewhat cheaper than the side-by-side construction. From what I have heard, the accuracy of such a rifle is not far behind that of a first-class single, at least up to 300 yards anyway.

Slots in breech clearly show principle of the double lock system.

And what should be the grouping ability of a really good double? This depends largely upon the cartridge. At a public trial back in the eighties, the best groups for ten shots ran a little over three and one-half inches for 100 yards, and just under six inches for 150 yards. Those were the days of the Express loads, light bullets, and enormous powder charges, but no cleaning between shots. Nowadays it is generally assumed that three inches constitutes a good group at 100 yards with a double, but then the great majority of doubles now are built for such powerful cartridges that the average person would be darned lucky to get that out of a single with open sights. Some twenty years ago Holland & Holland furnished three rifles for a trial—a Mauser, a falling block, and a double, all taking the .240 Apex cartridge. Up to 200 yards there was not much difference between the three, but at 300 yards the double ran away and made the best group of all, shooting into seven inches, as I recall it. All rifles were fitted with iron sights and with very short barrels, and weather conditions were anything but ideal. This was splendid shooting under the circumstances. About the same time one of the testing stations published a diagram of ten shots made by a double 9.3-74, all shots going into five centimeters at 100 meters, shot with scope from a semimachine rest. Now five centimeters at 100 meters corresponds to less than two inches at 100 yards, and that is about as close as most sporting rifles will group with big-game ammunition. It must be admitted, however, that such a group is exceptional and an average of two and one-half inches is about the best that can be expected.

The double Greener action. Barrel side walls extended into twin projections which fit into slots in breech.

Another thing. The axes of a double lie three-quarters to one and one-half inches apart, so, strictly speaking, a double can be regulated to do its best at one distance only. For that reason, most of the best makers like their pieces to shoot parallel rather than "on the line" at 100 yards, and this is far the best practice for all long-range cartridges. The big "lifesavers" are, of course, made to shoot a little apart for reasons mentioned before. I have seen it stated that one objection to doubles is their sights. It is true that for the big cannon open sights alone are practical. Tang peeps with them are positively dangerous and I know of at least one maker who refuses to fit them. But open sights, if properly made (a good many are not), are not as bad as some people seem to think. It must be remembered that the big bores are not intended for long distances, and up to 100 yards (a very long shot for them) a good bead and a wide back sight does well enough.

Here I am going to stick my neck out and state that the best front sight to be had anywhere is a pearl, and let it be a real one, mounted on an undercut stem. When you are through laughing, let me explain. In the first place, a real pearl is one of the most durable things Mother Nature turns out and in the small size required (one-sixteenth inch) it is not overly expensive. It can be seen in any light, and, best of all, it will "shoot away" from it to a lesser extent than anything I know of. The mounting should be done by a jeweler who knows that kind of work even though he may consider it far beneath his dignity. The best rear sight for me is the too-little-known "keystone" sight, a modification of the Patridge. An inverted keystone is placed into the middle of the wide flat notch, of the same apparent diameter as the bead, and even I, with none-

too-young eyes, can handle that combination while every other back sight gives me a hopeless blur. On calibers up to the .375 there is no reason why a careful shooter should not use a tang peep. I have done so for years with perfect satisfaction. Holland & Holland makes a very good pattern and so does Lyman.

When a scope is desired, it should be mounted directly on the top rib with a taper fit and not foot plates, and I believe it is best to offset it to the right, directly over the right barrel, in order to get it sufficiently low and yet have the open sights free for an emergency. Most of the best gunmakers have been doing this in recent years with perfect success. As for power, I think a magnification of two and one-half is ample for a double, and such a sight need not weigh more than about nine ounces with mounts.

The question of whether a double is ever really needed, I shall not go into here. Even professionals are divided on the subject. All I will say is that I have never seen a man who really appreciated beautiful guns who did not fall in love with a first-class double the minute he saw one for the first time.

To give my own ideas of a double suitable for most big-game hunting on our continent, I cannot do better than to give an outline of specifications I sent some years ago to a famous maker. Unceasing attacks of *anno Dominitis* made me feel the nine and one-half pounds of my old .375, so I had to look for something lighter, and yet I wished to retain approximately the same caliber for an all-purpose gun. Here they are:

Cartridge, 9.3-74 (better known to old-timers as 474 C).

Type, over and under, Kersten action with trunnions. Maximum weight, not over eight and three-quarter pounds. Nickel-steel action body with hardened discs screwed into the face of the standing breech. Back-action side locks with interceptors and swivels. Right trigger with French set, regular pulls two and one-quarter pounds, nonejector, nonautomatic safety. Deep scroll engraving.

Barrels, rustless steel, twenty-six inches long, the lower one with chopper lump. Barrels dovetailed together and then cold welded, no brazing.

Stock, Italian walnut, horn butt plate with steel clips at heel and toe, trap under the pistol grip cap.

Sights, scope two and one-half power, weight nine ounces with offset mounts. Reticule cross between posts engraved on a glass plate, no wires. Scope adjustable for both elevation and windage reading to one-half minute of angle. Scope to go on top rib with a taper fit. Sighted in for 220 yards.

Front sights, pearl bead, gold keystone spares, one-sixteenth inch diameter.

Rear sights, folding peep let into the strap of the action, adjustable for windage and elevation. (Quite a job, that.) Sighted for 175 yards. Two folding back sights, keystone pattern, one sighted for 100 yards, the other for a grouse load at twenty yards.

Accuracy, twenty centimeters at 300 meters from machine rest with the 257-grain bullet, and hoping for the best with the standard 286-grain load at 100 meters.

Here is a word as to the cartridge. In comparing it to the .375, it must be remembered that rimmed cases for doubles are loaded in England with a slightly reduced charge, and velocities from a twenty-six-inch barrel for the three-bullet weights are: 2,800 f.p.s. with the 235 grain; 2,600 f.p.s. with the 270 grain; 2,400 f.p.s. with the 300 grain. The old standard load for the 9.3 gave a muzzle velocity of 2,320 f.p.s. with a 286-grain bullet, later increased to 2,450 f.p.s. With the 257-grain slug you get 2,650 f.p.s., all from a twenty-six-inch barrel.

Of course, I never received the rifle, and never shall. Sherman was right. ♦ ♦ ♦

No Black Magic

(Continued from page 20)

clear sight alignment. Just where this transition takes place is a question, as is the duration of the time periods involved in this change from point shooting to that of clear sighting with gun and sights clearly defined. In shooting five aerial targets, this transition must take place five times. The transition sight alignment must form and reform five times within the brief time allotted to connect with those five targets. The recoil disturbs the mental picture of the gun alignment when each shot is fired, and the gun must be realigned instantly after each shot. If it is impossible, as some insinuate, to catch a flashing impression of the correct relative sight alignment between shots, how then is such consistent bullet control accomplished? It is also imperative to be absolutely certain about the exact instant of the firing of the shot.

It should be remembered that over a considerable number of years our eyes have become accustomed to these momentary sight alignment images on the same types of revolvers. Too, we have always used the McGivern large gold bead on the face of the one-tenth-inch square top post front sight. This is standard factory equipment on Smith and Wesson revolvers when specified and it may also be obtained from the King Gun Sight Company of San Francisco.

In our shooting we are quite definitely aware of such momentary sight alignment at the instant of releasing the shots on dime-sized lead discs, when cutting cards edgewise, when shooting through holes in washers covered with paper, and on various other targets when *tossed in the air*. I cannot recall a single instance when I was not definitely aware of at least a momentary sight flash impression when releasing a shot.

When pistol and revolver shooters have been trained consistently to connect with small aerial targets, the problem of hitting the gun hand of an opponent in a fight, or that of an attacker holding a knife becomes very much simplified. It is not too difficult for those who, like our class members, have become proficient in this field, especially when combined with superspeed, sure-hit draws. It is our firm conviction that every man in the armed forces should carry a *pistol* and be thoroughly trained in the quick and effective use of it. Law enforcement officers should also have the same opportunities. Everyone who makes the effort can acquire efficiency. There is no mystery to it. ♦ ♦ ♦

The Brenneke 7 mm.

(Continued from page 21)

roaming undisturbed over these magnificent mountains. More often than not, the hunter will find his grizzly near or above timberline, which is at 7,500 feet. After a heartbreaking climb, he may reach a predetermined spot from which he expects to shoot. All too often the grizzly will have disappeared and the hunter begins to realize that seeing a grizzly is one thing and getting within reasonable range is quite another. It is then that he feels the need of a bullet with plenty of energy, penetration, and bone-smashing power at distances of 350 yards and over. Add to this the prime requisite of superfine accuracy and flat trajectory, with plenty of range practice until such confidence has been acquired that one can place his shots into a twelve-inch circle at 350 yards from the sitting position. Any hunter then should be able to justify violation of the self-imposed rule against shots at big game at 300 yards and over.

All that remained to do was to look for and find a supercartridge that would meet all of these requirements.

Time and space do not permit an analysis of objections to all of our big-game cartridges. Two, however, the .375 H. & H. and the .300 H. & H., demand mention. These are the cream of the entire crop; they seem to have everything, and both have their share of admirers. The .375 has an excellent reputation as a stopper of dangerous game at short range. In my opinion, the .300 will do everything the .375 can do—and will do it better at the longer ranges in the hands of these owners who are sufficiently enthusiastic to become thoroughly acquainted with it on the range. However, it is no secret that, in hunting-weight models, the .375 and the .300 have an unpleasant recoil. This may be the reason for the great majority of these fine guns spending most of their lives in their owners' gun cabinets. In spite of the superior ballistics of the .375 and the .300 H. & H., they fail to meet all the requirements for the ideal long-range, big-game rifle for the simple reason that unpleasant recoil acts as a disturbing factor if the necessary amount of range practice is carried out from the sitting position.

In selecting one of the Brenneke bullets for trial, my choice was the 7 mm., not because this very same bullet had (unless I am misinformed) made a world's record target at 200 meters, but mainly because of its fine ballistics. Its recoil is not unpleasant, and the weight of the rifle barely exceeds that of my seven-and-three-quarter-pound Springfield with corrugated steel butt plate. The 7 mm. bullet is a Spitzer with a nine degree boattail, weighs 177 grains, and is slightly over one and a half inches long. The powder charge is 58 grains, and muzzle velocity is close to 2,940 feet per second.

For long-range use, the following figures give an idea of its remaining "punch" at distances beyond those one would consider normal with the .30-'06:

	Yards	*f.s.*		*Inches*
Remaining velocity at	100	2,780	Midrange trajectory	.5
	200	2,620		2.20
	300	2,470		5.36
	400	2,325		9.72
	500	2,190		17.28

These figures show a slight superiority over the .300 Magnum.

One need not be concerned with paper figures indicating foot-pound energy. They are extremely misleading. A far better process is to examine in the field the indisputable evidence of the actual execution a bullet is capable of at long range. A truthful, detailed description of these various executions, however, does not make appetizing reading. Suffice to say that my diaries contain a detailed record of each head of big game collected beginning with 1933, which was the first time Big Betsy was carried up a snow-covered mountain in British Columbia. These diaries contain also a full record of the performance of my Springfield under similar conditions prior to 1933. The final comparison proves conclusively that the 7 mm. 177-grain Brenneke bullet has an amazing, in fact, almost unbelievable killing power at the longer ranges—a killing power far greater than the good old .30-'06, 180-grain open point, expanding, as loaded prior to 1933, though I understand this bullet has been much improved since that time. Up to date, my 7 mm. rifle has collected thirteen head of big game with only fifteen shots. One seven-foot black silvertip and one Rocky Mountain goat required a second shot. Eleven were killed in their tracks at from 234 to 382 measured yards, with one shot each. The thirteen trophies include four grizzlies, three black bears, three goats, one elk, two mule deer.

In my opinion, the ideal big-game rifle for long-range Western shooting should possess superb accuracy with consistently reliable killing power and ample penetration on our biggest game at distances of 350 yards and over, without punishing recoil. In other words, the recoil should barely exceed that of a seven-and-three-quarter-pound Springfield. The rifle should be equipped with a good 4X hunting scope mounted low, with both front and rear lenses of about 30 mm. diameter. Provision for making fine adjustments for elevation and windage should be internal, and there should be some means of securely locking these fine adjustments to prevent accidental disturbances. My preference for cross hairs is the type which can be used as a range finder. For me, at least, three-lever double-set triggers make it a lot easier to score a hit in the vitals at long range, in spite of much adverse criticism. Barrel length should be twenty-six inches, with dimensions duplicating those of the discontinued Springfield Sporter barrel, and without barrel bands or other gadgets. A small gold bead front sight on a raised ramp, and a Rigby rear peep mounted on the cocking piece are useful in case of scope failure. A full pistol grip and steel grip cap with space for a spare gold bead, and a corrugated steel butt plate with hinged trap door, complete my "ideal" outfit.

I realize, of course, that an "ideal" in anything is a matter of opinion. Sincerely speaking, I have and I shall always have a warm place in my heart for my Springfield. In view of its fine record, it seems unfair perhaps to even hint at its long-range failures simply because I have lost a couple of head of big game which, in the final analysis, could have been my own fault. However that may be, I, personally, have had a share of satisfaction from no other rifle in so full a measure as the 7 mm. with Herr Brenneke's bullets—an "ideal" combination for the hunting I have done, and expect to do.

POWDER SMOKE: THE NEWS DESK . . . READERS COMMENTS

AND YOU'RE COMPLAININ'

Birmingham, England.

Editor:

At the present time we are not permitted to import the smallest rifle component, which, seeing that there are many thousands of American rifles in use, presents us with some difficult repair problems.

The formation of rifle clubs from the Home Guard has resulted in demand for target rifles which cannot presently be fulfilled. As a result many of the Lend Lease sporting rifles are being pressed into service and hundreds of last century's centre fire sporting weapons are being sent to us for conversion to .22 rim fire and fitting with target sights. Persons requiring rifles for small game shooting are sending in the cheapest Continental junk to be made serviceable.

A. T. C. Hale.

GALL BLADDER TROUBLE

Panama City, Florida.

Editor:

"Something new has been added" to deer in Caledonia ("Caledonia Pot Hunter—By Order," by Major John B. George, January RIFLEMAN). It appears that the deer he killed had gall bladders!

Is the Major or natural history in error?

Ira A. Hutchinson.

The Major, and the editors, should be taken to task. Absence of the gall bladder is one of the characteristics of the deer family. There is one subfamily, Moschinae, distinguished by possession of a gall bladder, but it inhabits Tibet, Siberia, and northwestern China—and does not come in 200-pound sizes! —EDITOR.

THE "HAWKES"

South Bend, Indiana.

Editor:

I just received my January copy of THE RIFLEMAN and finished reading the fine editorial on Senate Bill No. 1678, introduced by Senator Hawkes, of New Jersey.

Your editorials, and such fine letters as Kenneth Grayson's, in the November issue of THE RIFLEMAN, should convince every gun lover that "the Hawkes are going to get us if we don't watch out." I realize, as one gun crank, that I cannot aid Kenneth Grayson in his helpless appeal. The "Hawkes" have got him, even though Scar-face, Al Capone, "Legs" Diamond, Murder, Inc., and hundreds of other individuals and gangs spawned and hatched under the protecting wings of the Sullivan law. It seems its protective intentions have been more or less of a flop.

I was an Indiana State Trooper when John Dillinger and his mob were on the loose. And in every instance when apprehending any of his gang, they were better armed than we were, although it takes plenty of red tape to purchase a handgun in Indiana.

Why not declare an open season on Hawkes by organizing a Gun Cranks organization. The GI Joes, the gun cranks, their wives and friends, with the support of the many sporting magazines, can pile up enough opposition to defeat any candidate that is unfriendly to our cause. I would like to hear from other gun lovers on this subject—"for the Hawkes are going to get us if we don't watch out."

Ira Craig.

Lieutenant Gloria H. Goulding, WAC, of Tampa, Florida, who qualified as Expert with the .45 pistol after having fired the complete course only twice previous to firing for record. Major N. C. Newman (in photo), of Sturgis, Michigan, supervised her many hours of intensive dry practice.

THIS WAY, OR THAT

Oakland, California.

Editor:

Allyn H. Tedmon evidently wants to start an argument ("The Offhand Rifle," THE AMERICAN RIFLEMAN, December, '45). We probably find more difference of opinion in offhand shooting equipment than we do for prone. Now and then someone turns up with a freak outfit that shoots all right for him, but which no one else could possibly use. But there is one thing all the offhand outfits have in common, and that is the heavy barrel.

Let us take a look at what the champions use: C. T. Westergaard, offhand champion for 20 years, shoots a 15-pound Ballard. His son August shoots the same gun.

Mike Altman, this year's smallbore champion, and champion for many previous years, shoots a 15-pound Ballard. I saw him shoot a 10X possible at 100 yards.

Nick Altman, nearly as tough a customer as brother Mike, shoots a 16-pound Ballard. His 2267 at 200 yards on the German Ring Target is the nearest anyone has ever come to Doctor Hudson's 2301.

John Altman, the third brother, and a very fine offhand shot, shoots a 15-pound Ballard.

John M. Tokar shoots a 19-pound Pope-Ballard.

Samuel Clark shoots a 17¼-pound Hubalek-Ballard.

Arthur Hubalek used to shoot an 18-pound Ballard.

Fred Border shot a 14-pound Ballard.

John Dorweiler shot a 14½-pound Ballard.

John E. Kaylor shoots a 16½-pound Hubalek-Ballard.

S. T. Labody shoots a 16½-pound Johnson-Ballard.

And now for the final blast: Edward J. Muhl, 100 shot champion in 1930, shot a 21-pound Pope-Ballard with a 21-inch barrel.

Every man should use the equipment that gives the best results for him. Tedmon likes a light stock; I like a heavy one. My own personal limit as regards weight is 15½ pounds. I fizzled the 100-shot match in 1930 by trying to shoot a 17-pound gun. It often happens that a shooter will try to shoot a gun that is much too heavy for him, and that is probably what Tedmon has in mind. Still, those of you who can remember that far back, recall Marcus Dinwiddie, a 16-year-old kid weighing 116 pounds, set a world's record of 394 at 50 meters using a 14-pound Springfield.

The heavier a barrel, the better it shoots. But a man should not attempt to shoot a gun that is too heavy for him. If you cannot stand up under a 100-shot match, then your gun is probably too heavy for you.

In closing, I should like to revive an old argument. I do not now know how either to prove or disprove it, but here it is: All the good offhand shots claim that a rifle shoots more accurately standing than it does prone!

Alfred K. Friedrich.

ANOTHER NRA FIELD OFFICE

A third NRA Field Office has just been established—this time in Tulsa, Oklahoma. The area covered by the new office consists of four states: Oklahoma, Texas, Arkansas, and Louisiana. Ray Whitaker is the Field Representative in charge of the Tulsa office, and needs no introduction to clubs or members in the Southwest. Formerly Ray was a well known tournament shooter and national figure in the Veterans of Foreign Wars and the American Legion. Of late, he has been a Lieutenant Commander in the Navy, assigned to the Small Arms Training Program.

Like all NRA Field Offices, the new one will serve all clubs, leagues, members, and tournaments in that territory as well as organize new Junior and Senior clubs.

The office address for the present is 114 South Detroit, Tulsa, Oklahoma.

CONTROL THAT ENTHUSIASM

Teen-age youngsters have aroused the citizens of Tampa, Florida, with their promiscuous firing of guns about the town. An editorial advocating punishment which appeared in the Tampa *Times* drew a letter from Rudolph Schwabe, President of the Tampa Shooting Club, which contained the following: "We cannot offer a foolproof cure for the misuse of firearms, but firmly believe that if teen-age boys were trained in the safe and sane way to handle guns a lot of shooting accidents would be prevented.

"The Tampa Shooting Club has operated for years a Small Arms Firing School with instructors certified by the National Rifle Association. They will be glad to help anyone interested in conducting clubs or classes, or even to give the instruction themselves."

Another comment on this menace was voiced by Chief of Police Ed Garner, of Sarasota, Florida. He said that Sarasota once had the same problem but solved it. When a youngster was discovered shooting when he shouldn't the police took away his gun and ordered him to appear, accompanied by one of his parents, at headquarters. When he showed up with mom or pop, he wasn't scolded but given an illuminating talk on firearms safety and shown how to handle the weapon properly. Next, he was given some targets and invited to use the police range for practice any time he saw fit. Here he was not dangerous to his neighbors. And as a result Sarasota has been free of kids misusing guns for years.

CRIME AND FOREIGN WEAPONS

Dayton police report no foreign-made guns have been used in crimes there lately.

The last time one was used was last November when the estranged husband of a woman forced his way into her home and was shot with a .32 caliber Mauser pistol.

This revelation followed an announcement by President Truman recently that steps are being taken to prevent souvenir weapons, brought here by returning veterans, from falling into the wrong hands.

As for veterans registering their souvenir weapons, police say you must register all sawed-off shotguns and any full automatic weapon. Other than these no registration is required as long as the weapon is not carried.

Most guns brought here from abroad require non-standard ammunition, and for that reason are practically useless. The 7.65mm, 8mm, and 9mm cartridges necessary for most of them are unobtainable from American producers.

—From a Dayton, Ohio, newspaper.

OFFICE OF THE DIRECTOR OF CIVILIAN MARKSMANSHIP

Now that the activities of the Office of Director of Civilian Marksmanship are re-established, there are a few salient points which should be brought to the attention of individual shooters and club officials.

About 25,000 pieces of mail were received at the DCM during January and February of 1946. Most of these were applications for club enrollment, purchase requests, requests for issue of supplies, and letters desiring information. The DCM is about thirty days behind in processing this mail.

Correspondence arrives at the DCM without signatures or return addresses on the letter proper. Return addresses should appear not only on the envelope but on the letter or order itself.

To enable the DCM to more adequately encourage marksmanship practice, the War Department has designated specific depots throughout the country as distributors of materials and supplies. Ammunition distribution will be made from depots in New York, New Jersey, Illinois, Kentucky, Nebraska, Colorado, Texas, California, and Oregon. The sources of ammunition components will be expanded to include New Jersey, Illinois, and California. This will materially decrease the cost of carrier charges to the shooter, and result in more prompt deliveries.

The DCM price list shows the materials now available for sale for the encouragement of marksmanship practice and gives instructions for ordering. As other items become available they will be announced in THE AMERICAN RIFLEMAN.

The available United States Rifle, caliber .30 M1917, is classed serviceable (used) and will be sold as issued. All other rifles are new. Please do not submit specifications with which it is impossible to comply. Only one arm of a type will be sold to a purchaser. The requests for specific brands of .22 caliber ammunition will be ignored and sales made from the stocks available.

Under established regulations for the encouragement of marksmanship practice, sales are made to individual members (Junior members excepted) of the National Rifle Association of America residing in the United States or its possessions, for their personal use and not for resale. Rifle clubs and schools receiving issues of Government property from the DCM are required to keep that which is not expended in target practice in as good and serviceable condition as it was when received. Clubs and schools on DCM rolls are authorized to purchase available spare parts and accessories thru the DCM.

The Office of DCM is receiving numerous inquiries from clubs concerning 1946 issues. Before such issues can be made the inventory report for the previous year must be satisfactorily completed, and the NRA 1946 club affiliation in order.

The individual shooter and club officials can ease the pressure upon the DCM if they will refrain from writing a follow-up or tracer on correspondence until at least sixty days after submission of the original.

The mail address of DCM is: Director of Civilian Marksmanship, War Department, Washington 25, D. C.

BOOK REVIEW

AUTOMATIC WEAPONS OF THE WORLD

By M. M. JOHNSON, JR., U.S.M.C.R., and CHARLES T. HAVEN

The title of this work is pretty inclusive; it covers a lot of territory—all there is on this globe, in fact. To live up to such a name the book would have to be, as Jimmy Durante would say, "Colossal." *Automatic Weapons of the World* is all that and more. After starting with a discussion of the principles of weapon design and a very passable general history of arms development, it goes on to give individual treatment, including in most cases a photograph and often a sectional view, to every semi-automatic and full automatic rifle, pistol, shotgun, and cannon under 75 mm that this reviewer has ever heard of. Then for good measure, it adds three chapters on "How To Keep Them Firing;" three more on "How They May Be Employed in Combat," including a very thoughtful discussion of the relative effectiveness in combat of the hand operated rifle versus the semi-automatic. On top of all this there are five more chapters on "Miscellaneous Considerations," such as the problem of ammunition supply, accuracy, prophecies concerning the future of the automatic arms, etc.

By this time the authors have reached the stage where they are content to add four lengthy appendices, then close with a bibliography and an index. Appendix I, a most comprehensive tabular summary of the principal automatic and self-loading weapons, is particularly valuable. Appendix II lists the various types of ammunition and tells which guns are chambered for each. Appendix III, which gives line drawings and principal dimensions and characteristics of the most prominent military rifle and pistol cartridges, is most useful.

One is so struck with admiration at the vast amount of energy displayed by the authors in the production of this monumental work that it would seem ungrateful to voice a criticism; but one could wish that the authors had been at more pains to distinguish, both in the title and in the text, between those arms which are really automatic in the strict sense, and those which are merely self-loading. To the public at large, a self-loading weapon is an automatic, and has been since the first so-called automatic pistol was placed on the market; but now in view of the ease with which restrictive legislation can be passed when tagged with the word "automatic", inferring Tommy guns and machine pistols, it seems high time to begin some education in strictly correct nomenclature of self-loaders.

Written as it was, by the well known designer and manufacturer of the Johnson Semi-Automatic Rifle and of the Johnson Light Machine Gun, and by his close associate, this book has the advantage of a world of actual experience in the subject covered.

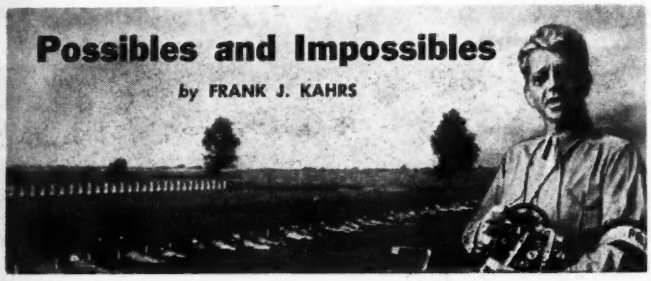
Besides being an exceedingly valuable reference work, the book is interesting and instructive—J. S. H.

644 pages, with 100 insert pages of half-tone illustrations. Wm. Morrow & Co.—$7.50.

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington

VOL. 9, NO. 3 BRIDGEPORT, CON[N.], MARCH, 19[46]



Had a letter recently, written from Scotland, from an old friend whom I haven't seen or heard from since the last national matches at Perry. This officer, being interested in target shooting, naturally looked up some of the boys in Edinburgh and tells me that they are anxious to obtain rifles of sufficient accuracy with good sights for 25-yard indoor gallery competition, but there are none in sight over there.

They have 50 clubs in the **Home Guards Rifle Clubs Association** and lots of snooting interest. It's interesting to know how quickly shooting interest returns among the rifle clubs, even in the countries that have been exposed to the war and its aftermath.

* * *

About thirty years ago I made a trip through Indiana calling on rifle clubs and met a chap I had previously met at Camp Perry. Our paths have crossed many times since, and the other day we got a letter from him requesting a set of the Currier & Ives prints.

He mentioned that he enjoyed the old-fashioned cap and ball rifle matches shot locally at a cross on a blackboard each Sunday. Sometimes they had as much as $100 in the pot, all of which went to the winners based on the value of their shots. All shooting prone—rifles weigh 10-30 pounds—*open sights* only —distance 30 yards.

* * *

In reading the *Summit Herald* of Summit, New Jersey, recently, I found an article by the instructor of the Small Arms Firing School conducted by the local Rifle and Pistol Club of that place, which is just full of good and timely information about guns brought home by returning veterans.

"Do not presume the guns our returning veterans bring home are safe to fire. Several instances have been brought to my attention where both rifles and pistols burst when fired and subsequent examination of the "remains" of those German arms disclosed they had been skillfully mutilated in a way that did not show when the piece was assembled. Booby traps calculated to kill or injure some souvenir hunter. The worst offender is the much touted and over-rated "P-38" pistol. In one instance, the breech of a German military training rifle chambered and bored for the 22 caliber rimfire long rifle cartridge "let go" after the owner had fired about a hundred rounds.

"Much of the German-made automatic pistol ammunition being brought into this country was loaded for sub-machine guns and when these "souped-up" cartridges are fired in a semi-automatic pistol, be it of German or American manufacture, they are sure to cause "heap much trouble," ruin the pistol and, mebbeso, injure the man firing it.

"When unloading a semi-automatic pistol always follow this procedure:

"First, remove the magazine. Second, pull back the slide and eject the cartridge from the chamber.

"Have witnessed more than one accident and near accident when the person handling the pistol reversed that procedure, thereby leaving a live cartridge in the chamber when he or she thought the gun was empty. Instead the gun was loaded, cocked and ready to fire. A few weeks ago a G.I., home on furlough, did just that and, but for the timely intervention of one of my pupils, would have shot the wife of one of my best friends. That particular G.I. learned the hard way, was duly impressed, and will never make that blunder again."

MID-WEST TARGET SHO[OTIN]

REMINGTON HAS A COMPLETE LINE OF PISTOL AMMUNITION

BRIDGEPORT, CONN., March, 1946. Match competition among top-flight pistol shooters demands the utmost in the accuracy of the ammunition. Remington Police Targetmaster ammunition can always be depended upon for quality performance. Its outstanding features are maximum accuracy, reduced muzzle blast, particularly valuable when shooting indoors, and speedy ignition. Shooters who use Police Targetmaster shoot with confidence because they know that there is no finer pistol ammunition available.

You can forget your ammunition worries when you shoot Police Targetmaster. If your holding is good and you're squeezing 'em right, they'll do their part to put your name on the top of the list. Like all other Remington ammunition, Police Targetmaster has exclusive Kleanbore noncorrosive priming.

"Targetmaster" and "Kleanbore" are Reg. U. S. Pat. Off. by Remington Arms Company, Inc.

AROUND OUR CLUB . . . . . Open Match

...emington News

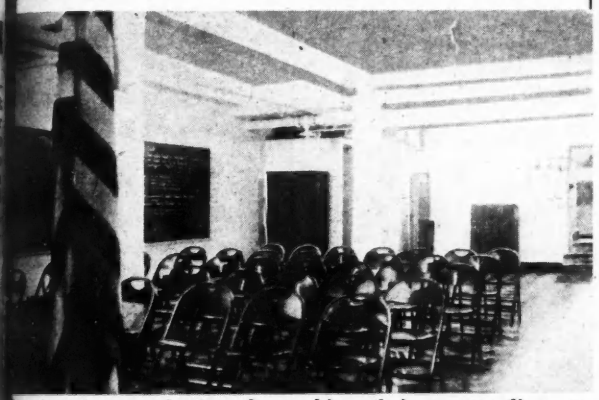
RT, CON... MARCH, 1946

WEATHER:
SPRING HERALDS FIRST POSTWAR OUTDOOR SHOOTING SEASON

First Class Reading Matter for Rifle Shooters

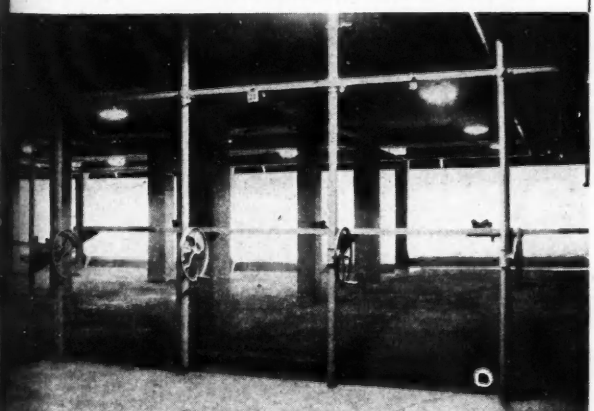
ISTOL CLUB PROMOTING ...TING AS A MAJOR SPORT

MILWAUKEE CLUB HAS MODERN FACILITIES



...o attract new shooters by making their surroundings as ...asant and comfortable as possible, this pistol club has a ...utiful, modern club room. Such innovations as asphalt tile ...rs and soft shades of green on the walls help enhance the ...uty of the club room.

24 POINT RANGE NEARING COMPLETION



...his picture was taken behind the firing points of the Mil...ukee club's new 50-foot range as the finishing touches were ...g added. Latest and most modern designs were used in its ...truction.

PLANS AND NEW RANGE COMPLETED FOR BIG PISTOL LEAGUE

MILWAUKEE, WIS., March, 1946. Much has been said and written about popularizing target shooting, and an aggressive pistol club in this city is really doing something about it. Convinced that pistol shooting really has a basic appeal to sports lovers, and determined to make a go of it, this club has drawn up an elaborate program that will be interesting to watch and, if successful, will start the ball rolling in the right direction.

The plan, in a nutshell, is patterned after that of a bowling league. Twelve 5-man teams are scheduled to shoot 22 matches this season. That means 60 men shooting 22 times, or 1,320 individual entries! Early matches will be slow-fire only, and as range technique improves, they will get into timed and rapid-fire. To interest the most people, they accept entries from persons having any type of 22 caliber handgun, just so long as it is safe for indoor range use.

Modern Club and Range

Realizing that one thing necessary in interesting people in target shooting is pleasant surroundings, this live-wire club has constructed an excellent 50-foot range with 24 firing points, conforming to the latest and most modern designs. And for business meetings and social gatherings they have a beautiful club room. Nothing was spared to make them as appealing as possible. The floors are of red concrete and asphalt tile. The walls and ceilings are painted a soft green. And lighting fixtures were installed with an eye to artistry and practicability. Comfortable, well-chosen furniture completes the picture.

But the club did not stop there. They realized, too, that promotion of a new venture requires publicity. So they have obtained the cooperation of the local newspapers with the hope of getting their news into the sports pages and having scores of every match published.

And, finally, still in keeping with the bowling league pattern, they have set aside certain nights for definite programs. Tuesdays and Thursdays are for rifle shooting; the handgun league shoots on Monday nights; and on Saturday mornings, second-shift workers from the local industrial plants take over.

Great Potential if Successful

This is one of the first clubs in the country to take this important step since the end of the war. It is hoped that they meet with every success. For their success will probably be a springboard for other clubs in the country to follow suit.

Any club with similar plans in mind is cordially invited to write to Remington Arms for suggestions and comments. Address Rifle Promotion Section, Remington Arms Company, Inc., Bridgeport 2, Conn.

Lawrence J. Berry

The death of Staff Sergeant Lawrence J. Berry, member of the NRA and the Lincoln (California) Rifle Club, as a prisoner of war in Germany, on April 10, 1945, was recently announced by the War Department. He was taken prisoner on December 20, 1944, near Luxemburg, and last reported February 3, 1945, a prisoner in Stalag 8-A.

Sergeant Berry attended and graduated from Lincoln schools. He was also a member of Capital Camp #8056, Modern Woodmen of Sacramento, and Gold Hill Lodge #32, F. & A. M., of Lincoln.

The NRA and the Lincoln Rifle Club have lost a very good member.

Arthur F. Hebard

Arthur F. Hebard, Life Member of the Association since 1919, died recently at his home in Scarsdale, New York. Mr. Hebard was born in Brooklyn on October 28, 1878. He graduated from Williams College in 1900. In that same year he became associated with the M. Hartley Company, which later became the Remington Arms Company. After having advanced to general sales manager, he left to serve in the Army Ordnance Department during World War I. Upon return to civilian life, he became vice-president and treasurer of the Savage Arms Corporation. He was engaged in industrial management work for himself from 1925 to 1941, at which time he returned to Savage Arms Company as assistant to the president until retiring in 1944. He is survived by his wife, a son, and a daughter.

Theodore W. Hildemann

Theodore W. Hildemann, longtime member of the NRA, and member of the Missoula (Montana) Rifle Club and the Northwestern Sportsmen Association, passed away on October 23, 1945, at Los Angeles, California. Mr Hildemann was known by sportsmen all over the U. S. for his beautiful custom-built gunstocks. He will be greatly missed by his shooting friends throughout the western States. He is survived by his wife, Mrs. Fern Hildemann.

Leon G. Zeglis

After an illness of almost a year, Leon G. Zeglis, Plainfield, New Jersey, one of the oldest members of the Brooklyn Edison Rifle and Pistol Club, passed away on December 25, 1945. He is missed by all of his fellow club members.

A WARNING

Winchester Repeating Arms Company, which developed the .30 caliber carbine and its cartridge for the Army, sounded a warning to all persons who may possess carbine ammunition. Do not fire this ammunition for sporting purposes or in revolvers even though the cartridges have a superficial similarity to revolver ammunition.

The .30 caliber carbine cartridge will not breech in any other rifle, but it is possible to chamber a revolver to fire it. If used in a revolver, however, it develops a pressure level at least two and a half times greater than that for which the revolvers were designed.

A shooter who tries to fire a carbine cartridge in a revolver is flirting with trouble.

COMING EVENTS

Only tournaments scheduled during the two months after date of issue are listed here. However, all coming events are listed in each issue of the Tournament News supplement, which is sent to club secretaries, persons in the 1946 Classification Books, and those who attend registered matches in 1946.

The four classes of registered tournaments are indicated as follows: AA—National Matches; A—Regional; B—State championships and large district matches; C—Local. Unregistered matches have no letter designator. Classification of competitors for prize awards is indicated by an asterisk beside code letter (C*).

Illinois (C*), March 3—Elgin Rifle Club Small-bore Gallery Tournament. James C. Fritz, 22 Monroe Street, Elgin.

California, March 3—Southland Pistol Matches. R. S. Pease, Route 3, Box 84, San Diego.

California (C*), March 8—Tamalpais Revolver Club Gallery Pistol Tournament, at Alto. H. O. Peters, 706 3rd Street, San Rafael.

North Carolina (C*), March 9—Sixth Annual Indoor Rifle Tournament. John H. Pierczynski, 1221 East 36th Street, Charlotte.

Pennsylvania (C*), March 16, 17—Second Annual Spring Small-bore Gallery Rifle. Mary Jane Oster, 2800 Township Line, Llanerch.

Illinois (C*), March 16, 17—Midwest Gallery Rifle Tournament. C. E. Zink, 8827 South Leavitt Street, Chicago 20.

California (C*), March 17—Southern California Pistol and Revolver League Tournament. J. E. Cornell, 662 Arden Avenue, Glendale.

Pennsylvania (C*), March 17—Registered Pistol Tournament, at West Chester. Alice Y. Matthews, 108 North Greenhill Road, Broomall.

New Jersey, March 17—Garden State Rifle League Championship, at Union City. E. R. Case, 281 Main Street, East Rutherford.

Oregon (C*), March 24—Fifth Annual Gallery Rifle Tournament. Herb T. Brown, 10118 N. E. Skidmore Street, Portland 13.

Washington, D. C. (C*), March 24—National Capital Gallery Pistol Tournament. T. G. Arnold, 5308 41st Place, Hyattsville, Md. Advance entry required, limited to 66 competitors.

Nebraska (C*), March 24—Platte Valley Gallery Rifle Tournament. W. I. Troyer, 611 E. Overland, Scottsbluff.

Ohio (C*), March 30, 31—First Annual Indoor Rifle Match. Owen G. Smith, 2107 Myrtle Avenue, N. W., Canton.

South Dakota (C*), March 31—Tri-State Gallery Rifle Tournament. A. D. Walker, Madison.

Pennsylvania (C*), March 31—First Annual March Small-bore Gallery Rifle Tournament at Richboro. Fenton F. Thompson, 2000 Hartel Street, Philadelphia 15.

Ohio (B*), March 31—18th Annual State Gallery Pistol Tournament at Columbus. Charles G. Kallensee, 3917 East 3rd Street, Dayton 3.

North Carolina (C*), April 6—Greensboro Small-bore Gallery Rifle Tournament. J. R. Holshouser, 900 Fairmont Street, Greensboro.

California, April 7—Southland Pistol Matches. R. S. Pease, Route 3, Box 84, San Diego.

Texas (C), April 7—Registered Small-bore Tournament. H. L. Kent, Jr., 2405 Dormarian Lane, Austin.

Pennsylvania, April 11-14—Fourth Annual Spring Indoor Small-bore Rifle & Pistol Tournament. Earl Fryckland, Carlisle.

California (C*), April 12—Tamalpais Revolver Club Gallery Pistol Tournament, at Alto. H. O. Peters, 706 3rd Street, San Rafael.

California (B*), April 27, 28—California Small-bore Championship, at Fresno. Russ Wisler, 543 Clay Street, San Francisco.

Oregon (B*), April 28—Eighth Annual Oregon Small-bore Gallery Rifle Championship. Willis B. Miller, 1432 N. E. Liberty Street, Portland 11.

STOLEN GUNS

One Colt .45 Automatic, Serial Number 127002, Harpe bushing, white plastic grips, square target sights, an NRA model. Robert Schoeffler, 410 N. E. 52 Terrace, Miami, Fla.

One Colt .45 Model 1911, Serial Number 472685, Kind front and adjustable rear sights. Stolen on December 20th on board the USS Pondera (APA 191). Lt. Comdr. Dewey Londerbough, 116 Lydecker St., Englewood, New Jersey.

One 1891 Army Model Colt .38 caliber revolver, Serial Number 63048. W. P. Martin, 403 South Fourth Street, Alhambra, California.

One .45 Caliber Colt Automatic, C-155-797, with ivory grips, engraved FHS. Stolen 1 December, 1945, from my quarters 2037 Morairan St., Philadelphia, Pa. Forrester H. Scott, Girard Trust Bldg., Philadelphia, 2, Pa.

One Winchester Rifle, Model 52, Serial Number 16343; One Argus telescope, Serial Number 2800; One Bausch & Lomb telescope, Serial Number 215802. E. T. Jones, Chief Range Officer Equitable Rifle and Pistol Club, 393 Seventh Ave., New York City.

One new Luger pistol, Serial Number 4641, stolen from display window of Howell's Gun Shop. Notify Michigan State Police, Lansing, Michigan. J. W. Howell, Yorkville, Michigan.

DOPE BAG

Conducted by Major General J. S. Hatcher
Edwards Brown, Jr., A. H. Barr, J. L. Murphy, J. S. Rose

THIS MONTH:

.220 Swift Difficulties · Theories on Bullet Design · .22 Varminter · Stevens 44½ · Low Serial No. Springfield · Aluminum Sling Keeper · The Gunsmith's Predicament · .30-30 Bait. · Trade Dope.

.220 SWIFT DIFFICULTIES

I am the proud (?) possessor of a .220 Swift Mauser Action, Niedner barrel (26 inches long), and a stock by Griffin and Howe. In it I have tried every load from 33 grains to 40 grains of No. 4064 and No. 4320 (all with grease wads) and every kind of bullet from a 40-grain Speer Hornady to a 60-grain Hill.

To the best of my memory there have been about 1700 rounds fired through the barrel, which cleans up beautifully with nary a pit or blemish. The barrel might be a wee bit loose but there is no sign of wear anywhere. On top of this outfit I have a 10X Fecker with a ½-inch Lee Dot, and I've done all my experimental shooting from a sandbag rest at 100 yards.

If I were to pack up all my old targets and send them to you, freight charges would break me so I'll just write you about a few of them. First, it seems that the gun is on its best behavior when dieting on "hot" loads and fairly heavy bullets. For a while I was using a 50-grain Hill bullet in front of 36 grains of No. 4064 and a grease wad and getting 1-inch groups. Then I used a 40-grain Speer Hornady bullet in front of 40 grains of No. 4064 (with a grease wad). These results were really amazing. Only about half of the bullets got there—the rest blew up.

After that journey into supervelocity, I went back to the old 36-grain load, only to find that my 1-inch spread had opened up to about 3 inches. I cleaned the gun and cried on a friend's shoulder. He offered me consolation in the shape of some 60-grain Hill bullets which he said were performing minor miracles for him. I loaded several of them from 33 grains all the way to 39 grains of No. 4064 plus a grease wad. My best group was a five-shot spread around 2½ inches, with an occasional flyer, using 38 grains of No. 4064 plus a grease wad. Strange to say, all of the fellows left the range while I shot the 38- and 39-grain loads—something about pressure I believe. The primers were a trifle flat but Phil Sharpe says you can't tell too much by primer appearance.

Last Saturday night a friend of mine gave me ten 54-grain, wartime Sisk bullets and ten 55-grain Kingery bullets. I loaded them up with two different loads, 36 and 38 grains of No. 4320 and a grease wad.

The two Sisk loads didn't amount to very much—the 36-grain giving me about 4" and the 38-grain about 3". The Kingery job was just what the doctor ordered, however, with a 2" result for the 36-grain load and a ⅝" result for the 38-grain load.

Now, here's what's bothering me. First—What were my pressures and velocities with the 60-grain bullets? Second—What am I getting in the way of pressure and velocity with this 54-grain Kingery bullet (seated about .125)? Third—What made my gun go so sour on the old 36 grains of No. 4064 and the 50-grain Hill bullet. Fourth—Why do I get "flyers" on all my 60-grain bullets?

G. M.

Note: Sounds like you have barrel wear trouble, even though you do not indicate any erosion in it. Some Swift barrels will give up and show no accuracy after 1000 to 1500 rounds. So long as the bullet worked one time and later did not, that would indicate what your trouble is. I would say though that you will not know positively until you can get some bullets of prewar quality. Have not found too many of those homemade bullets that I could depend on for accurate groups consistently. That may be your biggest problem.

One thing is certain, however, and that is I cannot tell you what velocity or pressure you are getting with 38 grains of No. 4064 and the 60-grain bullet. I would say that it is excessive in most all .220 Swift rifles and I would not expect any kind of accuracy with that kind of load. I would expect better performance with around 34 to 35 grains and the same bullet weight. You are using enough of No. 4064 to make a good load with No. 4350 which you should try with the heavier bullets.

You should try those bullets with and without grease wads. I have found that many of my own rifles will not shoot accurately with wads, but will shoot without them. You never know until you try. I would use wads only to cut down on metal fouling or when I knew definitely it would improve accuracy. You should be getting around 3600 f.s. velocity, when using 36 grains No. 4064 with your 54-grain bullet. I don't blame the other shooters for leaving the range when using such terrific loads as you were using with the 60-grain bullets.—A. H. B.

INTRODUCTION

Introducing NRA's newly-enlarged Technical Division staff and Dope Bag Editors, a part of Headquarters expansion in keeping with immediate postwar plans for greater service to Association members:

Major General Julian S. Hatcher, U. S. Army, retired, long-time member of the NRA Board of Directors and Executive Committee, co-editor of the Dope Bag, 1922-1931; throughout the war years, Chief of Plans and Training Service, later Chief of Field Service, Ordnance Department.

General Hatcher is probably best known to RIFLEMAN readers through his authorship of several books, "Textbook of Pistols and Revolvers," "Pistols and Revolvers and Their Use," "Textbook of Firearms Identification." With his retirement now from the Army, he rounds out a brilliant career in ordnance designing, planning, manufacture and service. Throughout, he managed to keep up his contact with civilian small arms activities, Captaining the U. S. Rifle team at Bisley, England, in 1931; managing the U. S. International Rifle team in Switzerland, 1925; Rome, 1927; and Antwerp, 1930.

Edwards Brown, Jr., Lt. Commander, Navy Bureau of Ordnance; formerly a member of Western Cartridge Company's technical staff, specializing in ballistics. He is well known to Camp Perry smallbore shooters, having won three National Matches there; in 1937 winning a berth on the R. W. S. team; in 1938 a coaching position on the U. S. Dewar team.

A. H. Barr, the "Al" referred to so often in the Dope Bag as a shooting and testing partner of Fred Ness, continues his reloading and gunsmithing experimentation. He needs little further introduction here to RIFLEMAN readers long acquainted with his writings and "dope-ful" answers to questions.

J. L. Murphy, Captain, U. S. Army Air Forces, on the NRA staff since October, 1944, as architect-engineer, offers a planning service for ranges, club houses, technical improvements. Ho'ding a Master of Architecture degree, Yale University, Murphy has had experience in Army airfield planning, and as an Army combat engineer and bomber pilot.

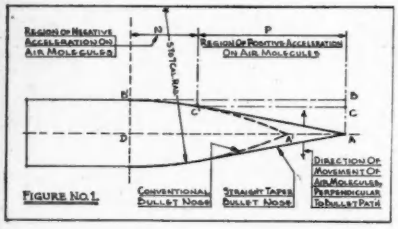
John S. Rose, Captain, AUS, devoted four years to the study of wildlife conservation at Ohio State University; won the 1939 National ROTC-CMTC Match. During part of the war he was assigned to the Rifle Group in the Weapons Section of Fort Benning's Academic Department, training officers and officer candidates.

Fred Ness, Dope Bag editor for the past fifteen years, while terminating his direct connections with THE RIFLEMAN, promises full-length articles from time to time as his new duties permit. To his avid readers and his wide following among RIFLEMAN readers, Fred says: "I want to express my thanks for your enthusiastic interest, for your material support and endorsement of Dope Bag writings during my fifteen year tenancy. I leave the pleasant associations with reluctance, yet, with considerable satisfaction over the popularity attained by this department of THE RIFLEMAN and the fact that it is to be carried on under the able guidance of my good friend, Major General Julian Hatcher. Good Shooting and Good Dope to each and every one of you."

THEORIES ON BULLET DESIGN

I have an idea on bullet design which I will attempt to convey with the aid of the accompanying sketch (Fig. 1). The practicability of my idea is based on the assumption that the most important part of the bullet, ballistically, is the nose and that what happens to the air molecules behind the ogive is of relatively little importance. In addition, I have taken the following consideration into account: The energy lost by a bullet in flight is equal to the energy imparted to gas molecules in moving them out of the path of the bullet, plus the energy used in creating turbulence behind the bullet, plus the energy used in creating the explosive sound wave by the bullet's passing.

Referring to the diagram (Fig. 1), consider a molecule of air at point A. The ideal bullet would cause it to move on a line perpendicular to the line of flight. Its movement would be under constant positive acceleration from A to C. Let us assume that at this time the point C^1 on the bullet would have about reached point C (the location of the molecule under discussion). The molecule has now been displaced by the straight taper point of my proposed design. With the bullet continuing forward, the molecule will now move to B or just beyond under constant negative acceleration. As will be noted, the bullet has a curved ogive from B^1 to C^1. The straight taper permits a lower acceleration rate of the air molecules than the conventional nose.


REGION OF NEGATIVE ACCELERATION ON AIR MOLECULES
REGION OF POSITIVE ACCELERATION ON AIR MOLECULES
STRAIGHT TAPER
DIRECTION OF MOVEMENT OF AIR MOLECULES PERPENDICULAR TO BULLET PATH
CONVENTIONAL BULLET NOSE
STRAIGHT TAPER BULLET NOSE
FIGURE NO. 1.

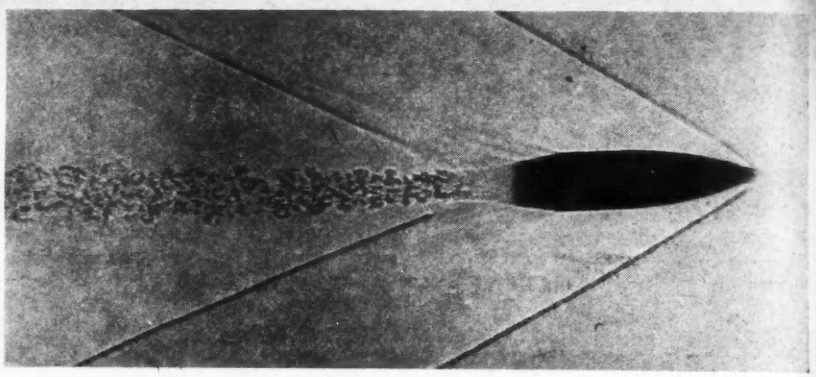
An analogy might be drawn by comparing the gas molecule to an elevator going from the bottom floor to the top of a building. The lower the acceleration and deceleration rates the less power or energy is wasted.

I can't go into the mathematics of the theory but some mathematician can perhaps figure out the correct relative position of point C^1 ahead of the cylindrical portion of the bullet. (It looks to me as if point C^1 should be about three-tenths of the distance DA on the diagram.)

I think my ideas incorporated in a bullet design will reduce to some extent the energy loss of a projectile in flight.—E. J. M.

Note: The above idea is certainly provocative of much thought but a theoretical analysis of its merits is extremely difficult. Nevertheless, an attempt is made here to set forth some of the factors which must be considered in the problem of bullet design. This is done in the light of the present theories at hand regarding the retardation of bullets in flight.

Theoretical considerations supported by actual photographs of bullets in flight indicate that loss of energy is brought about by the following effects: (1) Energy lost by the creation of air waves (Fig. 2). (2) Energy lost by creation of suction and eddy currents (created chiefly by the afterform of the bullet —Fig. 2). (3) Energy lost in the form of heat generated by friction (influenced by the form, area, and character of the bullet surface). It is possible to determine the magnitude of the *sum* of the above effects in the form of deceleration of the bullet at any point in the trajectory. From this determination of deceleration, it is possible to calculate the resistance to the bullet's forward movement at this same point. However, there is not sufficient information developed to break the determination of resistance down into its component parts. It is generally conceded that the first two of the resistance factors listed above, account for most of the total loss of bullet energy.


This actual photograph of a bullet in flight shows air waves and turbulence.

I want to point out at this time that test data have proved fairly conclusively that effect No. 2, turbulence from the afterpart of the bullet, is a large factor. The boattail on bullets, which minimizes turbulence, has been found to decrease air resistance to an easily measurable degree.

The formulas used in the experimental determination of retardation furnished in Herrmann's "Exterior Ballistics—1935" are:

$$R\alpha = \frac{(v_1 - v_2)(v_1 + v_2)}{2l} \quad \text{and} \quad R_f = \frac{w}{g} R\alpha$$

$R\alpha$ = Retardation of the bullet due to air resistance in the form of deceleration (in f.s.s.)
R_f = Resistance of the air against the flight of a projectile (in pounds).
v_1 = Velocity of the bullet at one pair of chronograph screens.
v_2 = Velocity of bullet at a second pair of chronograph screens.
l = Distance between mid-points of two pairs of screens.
w = Weight of the bullet in *pounds*.
g = The gravity constant.

These formulas can be applied to the following example:

A bullet weighing 180 grains is fired horizontally through two pairs of screens. The distance from the muzzle of the gun to the mid-point between the first pair of screens is 100 feet and to the mid-point between the second pair is 300 feet. The velocity at the mid-point between the first pair of screens is 2,500 feet per second and 2,300 at the mid-point between the second pair. The solution will be:

$$\left.\begin{aligned} v_1 - v_2 &= 200 \\ v_1 + v_2 &= 4800 \\ 2l &= 400 \end{aligned}\right\} \therefore R\alpha = \frac{200 \times 4800}{400} = 2400 \text{ f.s.s.}$$

$$\left.\begin{aligned} R\alpha &= 2400 \\ w &= \frac{180}{7000} \\ g &= 32.16 \end{aligned}\right\} \therefore R_f = \frac{180 \times 2400}{7000 \times 32.16} = 1.92 \text{ lbs.}$$

Photographs of actual bullets in flight have clearly shown the nature of the disturbances of the air medium surrounding these bullets. They show that the *wave front* set up by the bullet's piercing and pushing aside the air is produced by a series of waves traveling away from the bullet at the velocity of sound (this action is illustrated in Figure 2). Therefore, the greater the excess of the bullet's velocity over the velocity of sound, the greater will be the ratio between the forward motion of the projectile and the waves' outward motion. It then stands to reason that the angle formed by the wave front (ABC in Fig. 2), will become sharper or more acute as bullet velocities are increased. Of course, when the bullet is traveling at less than the velocity of sound, the wave front precedes the projectile. The photographs mentioned above show these phenomena. It would appear that bullet velocity could be determined from photographs by measuring the angle formed by the wave front, but factors entering into the picture have made this impractical.

Apparently when the velocity of a bullet is such that the wave front (traveling at the velocity of sound) does not move fast enough to avoid the oncoming ogive of the bullet, the wave front (cone) within the limits of the diameter of the bullet, of necessity, would be forced outward at a velocity greater than the velocity of sound. The influences which you have described in your theory on bullet design

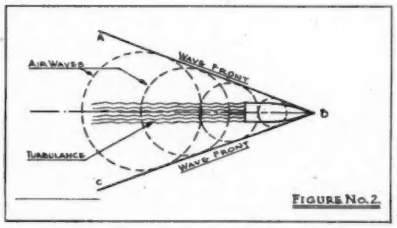


FIGURE NO. 2.

would come into play when bullets are traveling at these higher supersonic velocities. When we attempt to measure these influences the problem begins to get deep, but an attempt will be made to carry the discussion a little further into the aerodynamics of bullets without going into involved detail.

We know that a factor in the resistance, or drag, of a bullet is the stability of that bullet in flight. We know that the yaw of a bullet influences the form factor adversely and consequently increases the drag. Perhaps it is becoming evident why I said in the beginning that a theoretical analysis of the merits of your theory is difficult.

Suppose we try to set up a test to prove your theory. I have already indicated why, with the many factors involved, there is not sufficient information at hand to prove it mathematically. On first thought it might seem possible to prove it in a wind tunnel with the bullet stationary. This method is out, however, because we thereby neglect bullet yaw which enters into the form factor. Suppose then that we make up some bullets incorporating your design and fire them experimentally in comparison with the so-called conventional bullet. This method cannot be conclusive because when we change the forward shape of the bullet we change the balance of the bullet and consequently change its form factor in this way. The results might be influenced to a greater extent by this change in balance than by the influences which we are attempting to evaluate.

From what is known of past experiments, I am of the opinion that the balance of the bullet would be a more important factor than the influences which might be brought about by your proposed changes in design, at the nose, to take advantage of these influences. It all boils down to the fact that with the many unknowns involved it becomes necessary to obtain the best bullet through experimental firing and thereby measuring the algebraic sum of the many factors to reach a conclusion. In the end we take the shape of bullet which test proves to be best and the unknowns remain unknown. This is the way it appears to stand at the present time and I don't mean to imply that I think theoretical methods cannot be developed or are impossible. I hope the effort will be continued. There is good reasoning behind your idea. In fact, it is so good that the U. S. Army experimented with a sharp-nose bullet back in 1908. I understand that they referred to it as the "Pencil Point Bullet." Reported tests indicated that at supersonic velocities this shape nose offered slightly less resistance than the blunter types. Tests were not conclusive, however, and evidently after everything was considered, the bullet was not adopted. Of course at velocities below that of sound we all know that the "teardrop" shape offers the least resistance to air.

Accuracy is something that must be considered in arriving at a bullet design. The late Grove Wotkyns through experiment developed one of our most accurate caliber .22 high-velocity bullets called the 8-S (pencil point). On the other hand when experimenting with a caliber .25 at near 4000 feet per second another experimenter could not get accuracy with the "pencil point" and went to a blunt nose with an ogive radius of about four or five calibers. All of which helps to show the difficulty of arriving at a proper design on paper because of the many factors involved.

Test results alone have shown that the nose shape of the U. S. Government caliber .30 ball bullet is the best of almost every conceivable shape experimented with, for meeting all requirements of an efficient bullet in this particular caliber.

We might draw a rather far-fetched analogy to the methods used to arrive at the best bullet design by repeating the famous story of how Edison once checked hours of calculations by one of his engineers who attempted to determine the volume displaced by a light bulb. Edison inserted the bulb in a graduated beaker of water and the exact volume was immediately obvious.—E. B.

.22 VARMINTER

Sometime ago I wrote you about using a 63-grain bullet in a Varminter and having the bullets key-hole. I was using No. 3031 and No. 4320 and you had the opinion the twist in my rifle was not right for this bullet.

I disposed of that rifle and Griffin and Howe have just finished a .22-250 for me in which job Griffin used a Swift barrel which I understand has a 12-inch twist. I intend to try 29 or 30 grains of No. 3031 with a Sisk 63-grain bullet and see if it works. In this connection I have two questions to ask.

1. Have you tried 63-grain bullets in the Varminter type of rifle, with 12-inch twist, and if successful, what loads did you use?
2. Would No. 4064 powder be better than No. 3031 or No .4320?

It is perhaps quite unnecessary to fuss over this matter since I have plenty of 50- and 55-grain bullets that work well—but you know how it is.—J.G.P.

Note: I am reasonably certain that the .220 Swift barrel has a 14-inch twist, and that is sufficient to stabilize the 63-grain bullets. I use them in a Varminter with an oversize barrel and my standard load is 35 grains of No. 4320. That load will be too heavy, however, for anything but an oversized barrel and you might find your maximum loads around 33 grains.

I would use No. 4320 or No. 4064, I believe, rather than No. 3031 with the heavy bullets. My guess may be wrong, but I have always used No. 4320, No. 4064, or preferably No. 4350. I believe around 38 to 39 grains of No. 4350 would not be too heavy, although I would start with a little lighter load. If you get a load that works with that 63-grain bullet, I think you will like it very much. You can use the 63-grain bullet or the 60-grain 8-S, which is not available now, but was my favorite bullet in my Varminter. This 8-S bullet is especially good for long-range shooting.—A.H.B.

STEVENS 44½

I would like to ask a question regarding a venerable "weepon" I recently latched on to. It is a lever action, SS, barrel stamped "32 Long R F" but it has been relined and rechambered for the Hornet. The top of the barrel is stamped "J. Stevens A & T Co., Chicopec Falls, Mass., U. S. A. pat. Apr. 17, 94". The tang of the receiver is numbered 53756.

Is this rifle safe for factory loads in the Hornet cartridge? Would I have much latitude if I were to decide to reload for this rifle? Is the action comparable in any way to the famed Winchester High Side Wall?
—R. J. S.

Note: To determine whether you have the No. 44 or 44½ Stevens rifle check to see whether the breechblock rotates or whether it slides up and down in the receiver. If it is the so-called hinged breechblock located on a permanent pin so that when you break the lever the block swings back in a rotating fashion then you have the No. 44. This is not nearly as strong as the No. 44½. The latter slides up and down through the receiver much in the same fashion as the Winchester Single Shot. If you have the No. 44½ you can use any safe loads such as the factory or handloads in the rifle. If it is the No. 44 action then I would go slow on any handloads and would never exceed the factory ammunition in the way of velocity and pressure.

As to a comparison of the Stevens 44½ and the Winchester Single Shot (High Side Wall), I can say that most experts consider the 44½ not quite as strong as the latest SS (HSW). However, the 44½ is considered as good as the early SS (HSW).—A.H.B.

LOW SERIAL NO. SPRINGFIELD

Dr. R. B. Grimm of Cameron, West Va., sent us this picture of a low-numbered Springfield M1903 which he saw "let go." The shooter was not hurt. The Dr. points out the fact that he was neither the handloader nor the shooter.

The accident happened on the first shot from some handloads incorporating 48 grains of No. 4227 powder behind a 150-grain bullet having a diameter of .3085. Just previous to the "let go" the shooter had fired several rounds of factory loads with no difficulty. The load of 48 grains of No. 4227 is too much powder in the 30-'06. This would even be too much of No. 4198 which could be used up to 45 grains.

Undoubtedly the low-numbered Springfield receiver was a contributing factor in this case. Receivers made at Springfield and numbered below 800,000 were long ago found to be subject to such blowups. Along about 1933, the Ordnance Department adopted a policy of scrapping all so-called low-numbered receivers

whenever a rifle having one of them was turned in by troops for overhaul.

While a Springfield receiver numbered over 800,000 could not be as easily shattered in this manner, we still do not recommend trying overcharges in ANY action as there is always danger of injury from escaping gas or from splinters blown from the stock even if the action holds together. See additional "dope" on the low-numbered Springfields in the "Dope Bag" in the October, 1945, issue of the "RIFLEMAN."—E.B.

ALUMINUM SLING KEEPER

Henry L. Woltman of Rochester, Minn., has given us an idea on an aluminum sling keeper which we are passing along to those who are having sling keeper difficulties. He says that as far as he knows his design is an original one. We haven't seen one quite like it but from the photographs it looks good. It is made from a 2¼" by 1" by ⅝" piece of aluminum milled out to make the body and a 5/32" piece of flat stock to make the tongue. The tongue which is hinged to the body, works on a wedging principle with a taper toward the inside. The inside of the body is filed to a

corresponding taper in order to provide more gripping surface. The sides of the tongue should be scored with a checkering file or simply roughened with emery paper.

The keeper is slipped onto the sling with the tongue away from the shooter. The device is drawn up snugly and with the tongue pressed home, it will remain firmly fixed until released. It is easily released by pulling out the tongue and thereby permitting the assembly to slip forward.

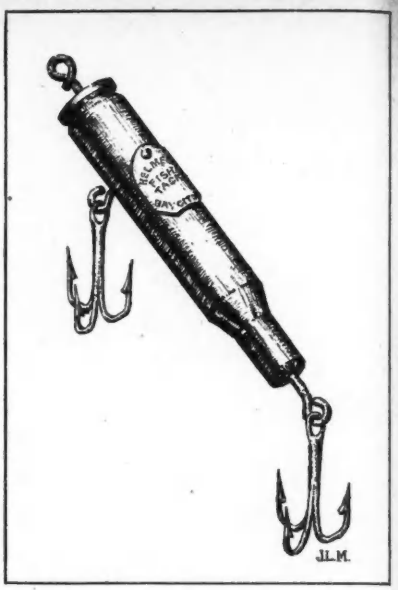
THE GUNSMITH'S PREDICAMENT

A new development in the shooting game has established itself as a serious problem. Misunderstanding between customers and gunsmiths have reached the point where the gunsmiths are more frequently involved in letter writing than in gunsmithing. My attention was recently called to a case where thirteen letters had to be answered by a patiently laboring gunsmith in order to complete a $31.00 job.

We are all familiar with the great length of time involved before delivery is made on many custom jobs. Coming as a surprise to most of us is the fact that unnecessary correspondence and incomplete specifications are to a great extent responsible for that time loss. You are in a position to defeat this problem by adhering to these suggestions. First, make a complete and detailed list of specifications. Do not expect the gunsmith to take anything for granted. Next, send him the specifications, asking the cost and if he will take the job. Then, upon receipt of a favorable answer, ship the gun.—J.S.R.

".30-30" BAIT

George Helmecke of Bay City, Texas, saw "Cartridge Whistles" in the January Dope Bag and has come forth with another novel idea for the use of old cartridge cases. He has sent us a sample, illustrated at right, of his ".30-30" bait which will probably be of interest to other members. He claims that excellent results are obtained in salt-water fishing for weak fish (Texas trout). Forty to fifty trout in an hour's time is evidently not unusual. They bite best when the bait is used "as is" with no fancy finishing.



TRADE DOPE

Optical Coating Laboratory of Washington, D. C., has been plagued with delays in receiving incoming mail because of incomplete or incorrect address by the sender. The full address should be used—5807 M Street, Hillside, Washington 19, D. C. Incidentally, this organization is able to handle, at nominal cost, the work of reblueing scopes while they are torn down for optical coating.

* * *

Adolph (Ad) P. Topperwein retired on January 8th after fifty-six years of professional exhibition shooting.

* * *

Scaramuzzo & Sons, custom gunsmiths and sporting goods dealers, have announced their moving to new and larger quarters at 601 So. Halsted St., Chicago, Illinois. They are adding to their regular line with outboard motors, gun books, fishing tackle, etc.

* * *

Osborne Klavestad of Minneapolis has forwarded us a 11" x 14¼" portrait of Col. Samuel Colt which is a fine reproduction taken from the Brady photograph appearing as a contemporary engraving in the memorial publication "Armsmear." This is a fine reproduction on select prewar quality paper and he says he had endeavored to find the finest engravers available this side of the U. S. Treasury. This should be a particularly fine addition to anyone's gun room.

* * *

Outers Laboratories of Onalaska, Wisconsin, have sent us a dozen of their new shotgun cleaning brushes. These same type brushes were made for the Navy during the war for cleaning the 20 mm. antiaircraft gun. The brushes we have tried have given excellent service.

* * *

Sam Bond of New Philadelphia, Ohio, who made many friends and acquaintances during his 18 years as a shooter, writes that since the end of the war he is again devoting all of his time to his shooters' supply business.

* * *

Jack Ashurst writes that the Ashurst Gun Works, of Pasadena, Calif., including the Ashurst Scope Mount and work on hand, has been entirely taken over by the Kittle Corp. Ashurst says that he is going to immediately reorganize his personal shop where he will carry on with wildcat rifles, barrel fitting, stock work for bolt-action rifles and special orders.

* * *

Pachmayr Gun Works of Los Angeles, Calif., have asked us to announce they will not be able to handle any more gun work, aside from stock bending, for several months. This announcement is being made because of a large backlog of work on hand. Pachmayr stock bending orders can be handled without delay.

* * *

Frederick S. Ball and Edmond L. Brown of Bryn Mawr, Pa., have announced their entry into the custom gunsmithing field. They write that they are prepared to handle stock and metal work. Their letter to us was accompanied by fine letters of recommendation.

* * *

Commercial Shell Reloading Co. of Detroit, Michigan, is hopelessly swamped with orders . . . as of February 6th, some forty thousand orders behind, despite discontinuance of all advertising since early last fall. L. D. Coleman, Jr., of the company, asks us to enter a plea to our members to refrain from ordering, and to exercise all possible patience for another month or so until orders can be filled or refund made.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an open market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 15 cents per word including name and address—minimum charge $2.00.

5. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—except that the phrase "write for catalog" may be used when listing real estate or merchandise in quantities.

6. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to NRA *standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

7. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid," as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

8. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

9. Requesting Privileges of Examination: We *insist* that purchasers desirous of examining merchandise before acceptance request shipment by express C.O.D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

10. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

11. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18" and Mauser and Luger auto pistols *with holster stocks*.

12. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing.

13. Closing Date: The closing date of all advertisements is the 5th of the month preceding month of issue.

FOR SALE

AMMUNITION .45-70-500 SMOKELESS. $1.64 per box. $8.00 per hundred. Packing charge 10¢ per box. No C.O.D. shipments. L. L. Bolin, Dept. R, 9 Grand St., South Amboy, N. J. tf

INDIAN RELICS, CONFEDERATE BILLS, COINS, minerals, gems, fossils, crystals, illustrated catalog 5¢. 100 ancient arrowheads $3.00. H. Daniel, Hot Springs, Arkansas. tf

NOISE STOPPING SOFT WAXEN SLEEP-RITE earstoppers make better shooting, better sleeping, set 10¢. Free literature. Raymond Dow, 2922-16th St., Flushing 6, N. Y. tf

YOUR NAME IN SILVER ON 100 MATCHBOOKS $1.25. Brookside Press, Antrim, N. H. 3-46

LIST OF KENTUCKIES AND OTHER ANTIQUE Arms and accessories, 10¢. T. J. Cooper, Rt. #1, Port Royal, Penna. 6-46

MUZZLE GUN SUPPLIES—NIPPLES FOR SHOTguns, rifles, muskets, Civil war handguns, 5 for $1.20. Send old nipple when possible. All new stock except Musket. Amber Flints for rifles and hoss pistols, 1 Doz. for $1.25. 1000 #11 Percussion caps, $2.85 FOB. Black powder, 6¼# can at $4.00 FOB freight only, Percussion rifles, $20.00 to $100.00. Give us your specifications, we carry a good stock. Hickory ramrods, 65¢ to $1.25, big variety sizes. 17A sights $2.50. Winchester Vernier $5.50. New .375 muzzle gun barrels by Buhmiller, not finished on outside, 40" long, $16.00. Rough finished butt stocks for Mod. 95 Winchester, steel butt plate $1.35. Adjustable black powder measure-charger, $3.50. GUN BOOKS—Send 15¢ for copy of MUZZLE BLASTS and get this list and list of numerous other items for muzzleers. E. M. Farris, Portsmouth, Ohio. tf

RELOADERS: CLOSING OUT, COMPLETE stock of loading equipment. Pacific dies, presses, bullets, primers, scales, powder measures, primed cases etc. Send 3¢ stamp for bargain list. Ned Kailing, 1504 E. Newport, Milwaukee, Wisconsin. 6-46

CUSTOM SINGLE-SHOT RIFLES—HORNETS, Lovell 2R, Winchester Hi-Wall actions. Available NOW! Details, stamp. "Single-Shot" Ratliff, Hillyard, Wash. 3-46

SUPER GUN COLLECTION, ACCESSORIES, reasonable prices, list for stamp. Hamilton, 1354 Norwood St., Chicago 40, Illinois. 3-46

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

ORIGINAL CHIN-CHIN GIANT CHINCHILLA Rabbits. Valuable Fur. Delicious Meat. Easily Raised. Pleasant Pastime. Tremendous Demand. Small Investment. Large Profit. Willow Brook Farm, R82, Sellersville, Penna. tf

DO YOU KNOW OF ANY PURCHASEABLE antique firearms collections? Generous REWARD for productive information. James Serven, Santa Ana, Calif. tf

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalogue 5¢ Cowboy Lemly, Las Cruces, New Mexico. tf

ILLUSTRATED 145 PAGE CATALOG OF Antique firearms and edged weapons 25¢ Robert Abels, 860 Lexington Ave, New York 21, New York 1-47

20 PAGE CATALOG, LISTING ANTIQUE FIREarms, edged weapons, cartridges, tools, parts, books and collectors items for 15¢. H. A. Brand, 1008 Ingalls Bldg, Cincinnati 2, Ohio. 7-46

AMMUNITION—NEW AND USED "SHOTguns", Rifles, Handarms, List 10¢. Dept. N. R. Rudolph's, Atchison, Kansas. 12-46

NEW SCOPES, MOUNTS, GUNS, RELOADING tools, powder, bullets, catalog 10¢. Louis Ringuette, Grants Pass, Oregon. 7-46

HOLSTERS, CARTRIDGE BELTS, KNIVES, telescopes, compasses, Officer's badges, police and sporting goods. Free folder. Nassau Sales Co. Floral Park 3, New York. 4-46

RELOADING LUBRICANTS: IPCO CELLOIDAL graphite ribbon wads $1.00 box; IPCO bullet lubricant $1.00 box. Special discount to dealers. Industrial Products Co. W. W. Perkins, Prop. Box 14, Wakefield, Mass. tf

NEW MODEL K 2.5 WEAVER SCOPES $34.50 postpaid, Marine Trench knives 6¼" blade with scabbard $4.00. postpaid, excellent for outdoorsman. Clark, Mildred, Montana. 4-46

BROWNING BELGIUM NEW YORK WORLDS Fair exhibit 12 ga., never shot, over/under $1000.00. A. G. Busch, 148 No. Bemiston Ave, Clayton, Missouri.

THE REVOLVER TIMING RECORD—A 10" RCA-Victor phonograph record. Practice timed and rapid fire anywhere, BY YOURSELF. Nothing to Watch—just LISTEN. For Dry shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph $1.50 postpaid. THE ORIGINAL SIGHT EXCHANGE, Box J, Paoli, Penna. 2-47

1946 PRICE LIST, 300 ITEMS FOR ARMS COLlectors, 25¢. House of Guns, Alpine Place, Arlington, N. J. 5-46

ANTIQUE ARMS. MATCHLOCK TO MODERN. Colts, Remingtons and long guns. Illustrated list 10¢. Osborne Klavestad, 3638 North Washburn, Minneapolis 12, Minnesota.

30-06 F. A. ARSENAL, 1935 CARTRIDGES, FULL patch, $7.50 per 100. 30-06 Winchester, pointed, full patch, staynless, non-mercuric, cartridges, $10.00 per 100. .38 Special factory load, 158 grain, $3.75 per 100. 351 Remington soft point, S. L, cartridges, $7.50 per 100. 25-35 rifle cartridges, Kleanbore, soft point, $7.50 per 100. .38 Cal. Rim fire revolver cartridges, $2.00 per 100. Super .38 auto. pistol cartridges, Remington, Kleanbore, $4.50 per 100. 30-30 rifle cartridges, Remington Kleanbore, soft point, $7.50 per 100. .32 Remington soft point rifle cartridges, $7.50 per 100. .38 Special gallery cartridges, Winchester, black powder, $2.00 per 100. 45-70 blank cartridges, Winchester make, center fire, $4.00 per 100. 44-40 Winchester shot cartridges, $3.50 per 100. .45 caliber automatic pistol cartridges, $5.00 per 100. 30-40 blank cartridges, late issue factory $8.75 per 100. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept. R75, 13 South 16th Street, Philadelphia, Penna.

SPRINGFIELD 30-06, ROCK ISLAND #10192, very good in, good out, $45.00. .32 Savage auto, good $20.00. .32 Colt PP 4" HB good, $25.00. J. A. Smith, Federal License 1842, 303 Webster Avenue, Jersey City, N. J.

OUR LIST OF MODERN ARMS WILL BE SENT on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass. tf

USE THE NEW GAS PROOF GUN WAD FOR mild recoil close even pattern unusually long range $4.00 per M. packed in 1000 lots 500 ⅜", 250 ½C, 250 thin C, send remittance. E. G. Snyder, Rt. #2, Reading, Penna. tf

CHRISTOPHERSON 8X SCOPE, MOUNTS, EXcellent, $35.00; Lebel 8mm. sporter, restocked, very good, $35.00; Remington-Lee 45-70 repeater, fair, $25.00; Winchester 45-70 1886, fair, $25.00; Wurfflein Philadelphia flintlock musket, fair $25.00; Leman Lancaster over-under percussion rifle, poor, $20.00. Ralph Drake, Osborn, Kansas.

TWO COLT 1911A1'S, HI-NUMBERS, EXCELlent, $50.00 each. Fabrique Nationale latest 9mm. automatic, holds 13 rounds, extra magazine, barrel, spare parts, 50 rounds, factory box, perfect, $100.00. Fabrique Nationale latest 7.65mm. automatic, extra magazine, 50 rounds, factory box, perfect, $50.00. P. 38 manufactured 44, with German holster, belt, 3 magazines, excellent, $75.00. 9mm. Mauser auto pistol, bore rough, blue slightly worn, Sear worn, leather holster $35.00. Hungarian Frommer .380 automatic, finish worn, bore rough, no magazine, $15.00. German Gewer 43, semi-auto. rifle, 7.92mm. excellent, $75.00. Jas. O'Rourke, 73 Ellwood St., New York, N. Y.

7X35 BAUSCH & LOMB BINOCULARS, PERfect condition, leather case, $135.00. Smith & Wesson 38-44 Outdoorsman, perfect condition, $75.00. Harvey L. Rumaner, 520 Beattie St., Syracuse 3, N. Y.

RUSSIAN NAGANT REVOLVER 7.5MM. HOLster, very good, $65.00. J. R. Szymanosky, 6439 Marsden St., Phila. 35, Penna.

WINCHESTER MODEL 64, 30-30 EXCELLENT inside and out sling and Lyman 56 sight, 8 boxes factory shells first money order, or ship C.O.D. $85.00. Howard Stultz, Abbyville, Kansas.

SWAPPING GUNS IS AS EASY AND ECONOMIcal as trading in your car. Try Klein's simple Trade-By-Mail plan. Write today, fully describing your gun. By return mail, we will quote our highest "Blue Book" cash or trade offer. We pay more, sell for less, send 25¢ (refund first order) for Guaranteed Bargain Catalog and current swap list. Klein's Sporting Goods, 5067E South Halsted, Chicago 7.

SINGLE SPECIMEN PRICE LIST #407 OF collectors cartridges, 20¢. 4 sheet list of shooting ammunition 10¢. 2 sheet list of empty shotgun shells, wads, primers and shot for the shot shell reloader 10¢. (three separate lists) WHICH? Charles Shattuck, Cherry Creek, N. Y.

PERCUSSION 14 GA. DOUBLE BY MANTON (London), locks engraved, fully checkered; to trade for medium weight target .22 rifle, issue Mark III S.M.L.E. excellent $60.00. W. M. Abbott, Box 185, Wilton, N H.

WINCHESTER MODEL 61, 22 LR SHOT (MOSkeeto) perfect, 400 rounds ammunition, ground trap, about 200 Moskeeto targets. $50.00 F.O.B. J. H. Hayes, Greenbriar Lane, Port Washington, L. I.

SURE—WE TRADE!

SEND FOR OUR "HEADLINER" (it's free!)

Read latest trade news—new goods—hard-to-get items. Published twice monthly. Each issue shows USED GUNS, SCOPES, BINOCULARS, PISTOLS, SIGHTS. GET WHAT YOU WANT—TRADE NOW!

WANTED—B&L and Mossberg draw scopes (or others) in trade for new 55mm Super Grade Argus.

HUNTING SCOPES & MOUNTS

NEW LYMAN Alaskan 2½X, coated lenses, "All-Weather" Adjustments, leather caps, choice of 7 reticules, future delivery.. $50.00
(NEW) Weaver K2.5 (when available), send for free circular..... 34.50
Weaver #440S-post or X-wire..... 35.20
Weaver #330S-post, X-wire or Post... 29.70
Weaver 1X, X-Wire with Dot..... 20.35
G. & H. Double-Lever Mount (specify rifle) 25.00
Stith Mounts 12.00
Redfield Jr. Mounts—Weaver 9.50
Redfield Jr. Mounts—Alaskan 11.50
Weaver "B" Mounts 6.60
Weaver "T" Mounts 2.20
Dust Caps (leather) for Weaver..... 1.30
Dust Caps (leather) Alaskan..... 1.50
Dust Caps (leather) Stith mt. 1.75

METALLIC SIGHTS

By the time you read this we should have a lot more sights than we list. Marble-Goss and Redfield OLYMPIC may not be back for a while, but we have most of the rest. Give second choice if possible.
Vaver Extension (flat top 52) $15.00
Vaver Extension (round 52) $15.00
Vaver Extension (Rem. 37)..... 15.00
Vaver front, detachable 6.00
Lyman 48 (Spr., Mauser, Krag, 54/70) 11.50
Lyman 57 (Mossberg, Rem. 513, Win. 75) 6.00
Lyman 56 (Sav. 99, Win. 94)..... 7.00
Lyman 30½ (Sav. 99) 6.50
Lyman 2A (Sav. 99, Win. 94, etc.)... 5.00
Lyman 1A (Sav. 99, Win. 94, Rem. 81) 4.50
Redfield 70 (Win. 54/70, 71, 86, 95, 94, 64, Rem. 141, 121, 30, Enfield).. 7.50
Redfield 102 (Spr., Enfield, Mauser, Krag, Rem. 81, Win. 64, 94, etc.).. 5.00

55mm ARGUS SUPER GRADE SPOTTING SCOPES

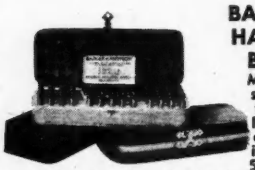
Coated lenses (increase illumination 36%); order one. If you don't agree it's the best yet, send it back for full refund. Postpaid $74.50
Saddle Leather Case..... 15.00
Argus (Freeland type) Stand..... 8.50
Freeland Off-Set Stand..... 7.50

RAY-BAN SUN GLASSES

"Made by Bausch & Lomb"

The finest goggle for Shooting, Sports and General Outdoor wear. Yellow Gold frames, standard model only, regular or dark shade, regular width and small size. Price, postpaid $7.75

BADGER HANDY BOX



Made of select butternut, holds 50 cartridges in rows of 5s for easy count plus space for a full box in center. Dope sheet in cover gives elevations. Price, postpaid $1.25
TRIGGER SHOES, M/513, M/52, M/37, etc. 1.50
NO-SLIP Rifle Butt Plates, 3 sizes..... 1.75
GUNSLICK Master Kit ($1.25 value)... 1.00
GUNSLICK, per tube..... .25
CLEANING PATCHES, .22, .30, .38.... .25
RIG ..... 25¢, 50¢ & 1.50
BRUSHES, Bronze or Bristle, .22, .30, .38 & .45 ..... .15
SHOOTING MITT (sheepskin) 1.00
HOLSTERS (sheepskin) specify gun.... 1.50
SURE-GRIP ADAPTERS, specify gun.... 1.75
HANDY BOX (holes for 50 plus 1 box. 22s) 1.25
BADGER SCORE BOOK (.22 Tournament) 1.00
DuPONT POWDER ..... $1.60 & 1.00

REMINGTON M/513T RIFLE

Limited number, complete with Redfield extension rear and Globe front, delivered.....$39.80

Send for FREE catalog and current "Headliner"

BADGER SHOOTER'S SUPPLY

"Lew" Bulgrin

Owen Wisconsin

---

10 GAUGE, NEW PRIMED EMPTY SHELL cases, 2 9/16", $2.50 per 100. #57 Remington and 209 Winchester shotgun shell primers, $5.00 per 1000. #11 percussion caps, Remington Shur fire, 1945 manufactured for small nippled percussion revolvers, rifles and shotguns, $2.50 per 1000. Rifle slings, brand new, all leather, Whelen type, 3 sizes, ⅞", $1.50, 1", $1.65, 1¼" $1.75. Web rifle slings, used, U. S. Army good condition, 49¢ each. Hunters compass, all metal, watch type, jeweled, $3.50 each. Engineers all metal Army type hand-sighting levels, $1.50 each. Cleaning Rods, all metal, 3 piece, calibers .22 to .27 and 30 to 50, Special $1.25 each, for rifle. Forward money with order. No C.O.D. shipments. Public Sport Shops, Dept R75, 13 South 16th St., Philadelphia, Penna.

3280 ROUNDS AMMUNITION CALIBER .276 Pederson $3.50 per 100. Nic G. Johnson, Box 357, Columbia Falls, Montana.

GRIFFEN & HOWE 30-06 SPRINGFIELD Sporter, .22" barrel, beautiful Circassian walnut stock, excellent condition $125.00 M.O. only. Lawrence Roberts, Wind Gap, Penna.

NEW LIST OF MUZZLE LOADING RIFLES, also cap and ball revolvers for shooting, 3¢ stamp please. Kimball Arms Company, Woburn, Mass. tf

WALTHER P.38, 9MM. VERY GOOD OR better, holster, extra magazine, $80.00. Alfred Neumann, Ione, Washington.

FOR SALE—2 NOSKE SCOPE MOUNTS, COMplete for Noske or Alaskan scopes, $20.00 each; extra base $4.00; custom mount for Winchester 70, Alaskan or Noske, attached without cutting or drilling $17.50; Mossberg Spotting scope and stand $19.00; Weaver scope 330-C, $22.00; 440-C, $26.00; mount for Weaver-Winchester 70, Redfield Jr., $7.00; Stith mount-yourself, $8.00; G&H sidemount, $22.00. All perfect. On approval. Lloyd Myers, Bristol, Tennessee.

WINCHESTER 54, TARGET GRADE, 7M.M., excellent 100 cartridges, $150.00. Excellent Remington 30, 270, new factory installed barrel, custom French Walnut stock, $175.00. Excellent 38 S&W Outdoorsman, 6" barrel, $75.00. F. T. Bryant, 2235 Brookside Parkway, Indianapolis 1, Indiana.

FOR SALE—ZEISS 8X DELTRINTEM BINOCulars. Good. On approval, $50.00. Lloyd Myers, Bristol, Tenn.

FOR SALE—ANTIQUE REVOLVERS, PISTOLS and guns. Illustrated list 10¢. Osborne Klavestad, 3638 No. Washburn, Minneapolis 12, Minnesota.

FOR SALE—M1903 SPRINGFIELD, PERFECT condition, serial #574377, $65.00. Burt MacBride, The Reader's Digest, Pleasantville, N. Y.

FOR SALE—NEW U. S. GOVERNMENT leather slings 85¢. Paul Jaeger, Sporting Arms, Jenkintown, Penna.

FOR SALE—GERMAN MILITARY MAUSER 8mm.x57mm, made 1941. Nicely finished & blued. no stampings. Barrel 23" covered top & bottom to last shoulder. This is a new gun. Price $65.00. One 8mm. World War I Mauser, 1909 Spandau, long type, barrel rough, parts of different guns but no broken parts. Price $22.50. One P.38, issued holster, 3 clips, very nicely finished & blued. New gun. Price $85.00. J. R. Jackson, Box 857, Holliday, Texas.

LYMAN SIGHTS, 48W. $8.50; 48 WJS, $11.50; Rubber knee boots, $4.50. Rudolph's, Atchison, Kansas.

.22-250 VARMINTER ENFIELD ACTION, Unertl 8 power scope Pacific dies, curley walnut stock, 150 bullets, 250 primers, 50 shells test fired, excellent, $225.00. Ernest Castello, Box 695, Clarksburg, W. Va.

WINCHESTER 52, 17A, LYMAN 48 EXTENSION like new $65.00; Weaver 330 B mounts post, like new $33.00. David Carter, Buckland, Mass.

SAVAGE MODEL 1921 PUMP, 2 BARRELS, 28"-30" very good, $59.00. Skeet clubs, No 8 chilled shot available now. Gabriel Paccarelli, 307 Arthur St., Utica 3, N. Y.

GUNS: P.38 EXCELLENT CONDITION, HOLster, extra clip, $65.00. .32 Belgian automatic like new $55.00. Wollensak binoculars: New never been unpacked, 8x30mm. $82.50, both coated optics complete with carrying cases. Motor boats .22 H. P. Johnson 1941 with 14 ft. plywood hull $450.00. 10 H. P. Evinrude 12 ft. plywood or 14 ft. metal. 10 H. P. Johnson 14 ft. plywood or metal hulls, Max Tawney, Gallipolis, Ohio.

MODEL 70 SWIFT, EXCELLENT, FIRED 100 rounds, mag base, front hood blue wear, 80 factories, $115.00. 52 H. B. excellent, stock shortened ¾" satisfactory shorts, mediums, flat top, scope blocks, Marble-Goss, Lyman 77, grouper, $75.00. Walther #888,837 PPK .32 automatic, perfect except slight holster wear, extra clip, new custom holster, $65.00 willing trade toward Walther Olympic .22 shorts, excellent, plus $50.00 or cash deal. Colts .32 automatic v.g. in, new Dulite finish $35.00. Hi-Standard model C .22 shorts, perfect in, new Dulite finish $55.00. Wilceaux Lightweight 8x30 optics excellent, outside good, English case, straps, $59.00 quality values. Russell Harned. Life Member. South Glastonbury, Conn.

BELGIUM BROWNING HI-POWER LOCKED breech 14 shot 9mm. automatic pistol with 30 rounds, very good, shot only few times, $80.00. Also German Gewer 43 semi-automatic gas operated rifles with 10 shot magazine and sling, slightly used, $75.00. spare parts for same, also parts for Mauser rifles, Luger parts and Walther P.P. 7.65 magazines $5.00 each. Walther firing pins $2.50. R. A. McBride, 513 No. Bois D'Arc, Tyler, Texas.

DELUXE 348, T MOUNTED 330S SCOPE, ALL perfect, box shells, $112.50. Gun only, $77.50. M. A. Danielson, Kenyon, Minnesota.

NEW 7MM. MANNLICHER SCHOENAUER WITH Winchester 70 barrel, 23", $125.00. 7mm. 93 Spanish Mauser very good, $35.00. B. M. Babb, 4902 Capital, Omaha, Nebraska.

SPRINGFIELD SPORTING 30-06 WITH SCOPE, good $125.00. Mauser 270, good, $125.00. J. E. Perryman, Calico Rock, Arkansas.

ENFIELD NEW CONDITION, HAS HAD SCOPE mounted, Krag sling, bayonet and 2 boxes cartridges, $65.00. Springfield shotgun double, 4 boxes shells, new condition $35.00. Remington .35 auto-loading and 100 cartridges, new condition, $125.00. Springfield new condition. 30-06 star gauged and 5 boxes shells, $125.00. Francis S. Boggess, 100 Moss Avenue, Liberty, Missouri.

SOME SCARCE CARTRIDGES FOR COLLECtors, list for stamp. unused 10 ga. brass empty primed, $9.00 per 100. Miller Brothers, Rapid City, Michigan.

VERY GOOD AUSTRIAN-STEYR-MANNLICHER rifle 7.9mm. carbine, set triggers, $125.00, money order or C.O.D. V. A. Stevens, 1070 Willard St., Galesburg, Illinois.

S&W .45 MODEL 1917, HEISER HOLSTER, 100 rounds, clips, new condition, $55.00. Ray Thompson, Grand Marais, Minnesota.

BEAUTIFUL D. H. E. PARKER DOUBLE 16 gauge, single trigger, Beavertail forearm, improved and modified, pistol grip, 26" barrels, with saddle leather case, eight boxes shells, all excellent price $275.00 M.O. L. G. Pratt, Life Member, 89 Broad St., Boston, Mass.

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RIFLE, 30-06, SPRINGFIELD, DCM, ACTION, over, 1,400,000, brand new heavy sporter barrel, fired 50 times, for sighting. Walnut custom built stock, beautifully checkered has recoil pad, swivels, sling, Weaver 330 post, beautiful, custom built mount, price $175.00. Couldn't be built for anything like this money. Pacific reloading outfit, 30-06 really complete, includes all shell and bullet sizing dies, trimmer-powder measure, Pacific scale, and weights etc. List price. Includes three, new different moulds, thousands of primers, gas checks, shells, empty, lots of factory bullets, itemized list on request. binoculars B.L. 8x25, central-focus right corrective, leather case, $65.00. German. spotting scope comparable to Zeiss, adjustable stand, heavy. case, $95.00. Custom built, 22 rifle, from Springfield, National Match, sleeved barrel. It's beautiful, attract attention, any range, $95.00. Brand new Pacific peep sights, Enfield, Springfield, less than list. Cutts, comp. 16 gauge, I am not a dealer. Kenneth Pool, 2706 West 78th St., Inglewood, California.

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30-06 REMINGTON 30S, VERY GOOD, 330 Weaver Crosshair B mounts, $107.50 open sights $77.50. Orville Ebersole, Claysburg, Penna.

PERFECT 9MM. LUGER WITH .22 CONVERSION unit, holster $90.00, excellent P .38 $45.00, .45 SAA good $27.50. Krag Sporter, Bishop stock, micrometer sight, very good $40.00. 30-40 1895 Winchester, good, $37.50. Walter Price, 922 Rogers, Okmulgee, Oklahoma.

ENGRAVED PORTRAIT OF COL. SAMUEL COLT 11x14, reproduced from the memorial publication 'Armsmear'. Outstanding artistry, suitable for framing, $1.00. Osborne Klavestad, 3638 North Washburn, Minneapolis 12, Minnesota.

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COLT .45 AUTOMATIC VERY GOOD, HOLSTER, $45.00; Colt revolver .45 Army, perfect special stocks, $45.00; Hi-Standard special carved stocks excellent in, good out, $50.00; Woodsman 4½ Special stock excellent in, very good out, $63.00; Match Target Woodsman, perfect special ivory plastic stock, $85.00; Krag Sporter, very good, $48.00; Krag Sporter Myrtlewood stock etching on magazine side plate, guard, bolt handle, excellent, $95.00; Western Peep, money order. C. W. Larson, R#1, Deer Island, Oregon.

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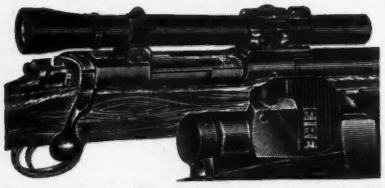

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LATEST PRE-WAR 52 H.B. SERIAL 61763B, excellent, accurate, shot 500 rounds, sling, Lyman 77, Ranger scope, Litschert 8 power attachment, metal case, 500 shells, $145.00 C.O.D. Alden H. Blood, Wadena, Minnesota. Member.

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ENFIELD 30-06 BY STOEGER, WEAVER 330B mount, ramp front sling, very good inside and out, M.O. $100.00. without scope $75.00. Krag Sporter, Stoeger stock, rear peep, front ramp, 21" barrel re-blued, very good inside and out, chip out of stock $55.00 or trade 250-3000. Member. J. L. Morris, Citizens Bank Bldg, Brownwood, Texas.

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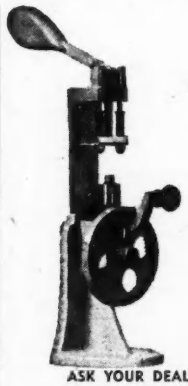

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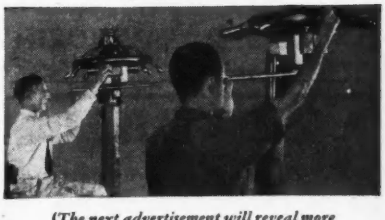

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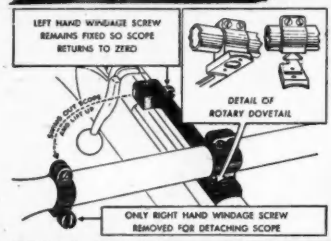
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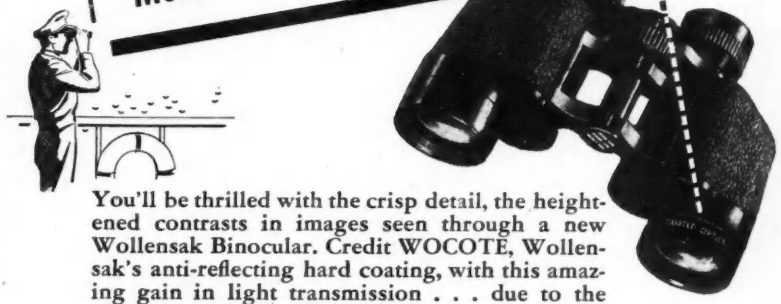

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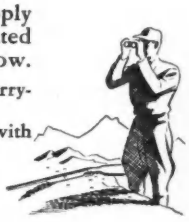

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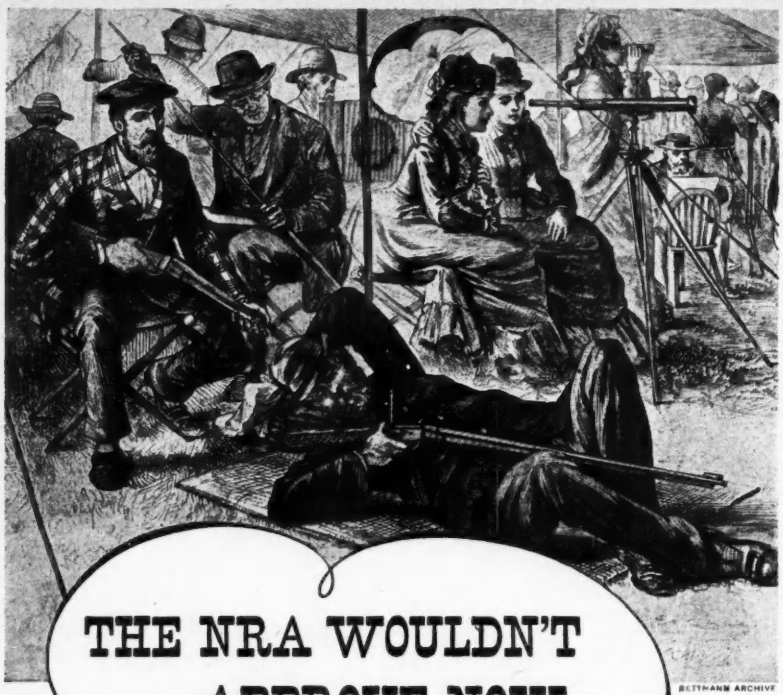

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CUSTOM 30-06 SPRINGFIELD, 330 WEAVER Lee Dot, Stith mount, excellent, $140.00; 12 ga. Stevens 620A FC pump, excellent $50.00; 2R Lovell Hi-Side SST, heavy Buhmiller barrel, 3/4" 10X Fecker, mounts, 250 cases, components, tools, excellent $125.00; .22 Winchester lo-side cheekrest stock, 329 Weaver, good $22.50; 30-40 Krag Sporter ramp, peep sight, very good $40.00; 8mm. Mauser Sporter less stock, excellent $35.00. Will restock for $25.00 plus your wood. M.O. only. Roy David, 3302 So. Peoria, Tulsa, Oklahoma.

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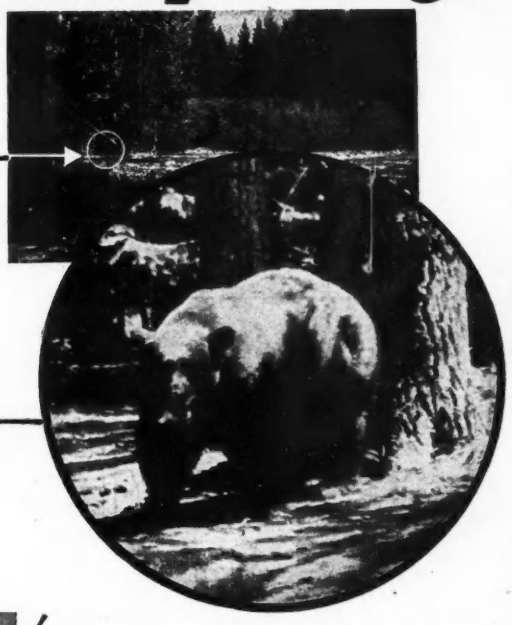

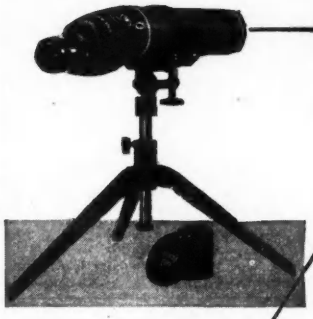

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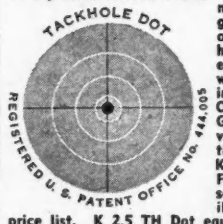

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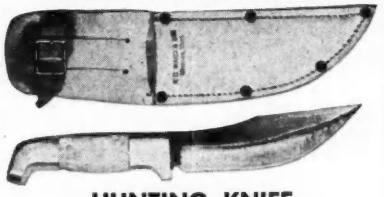

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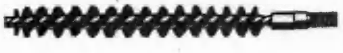

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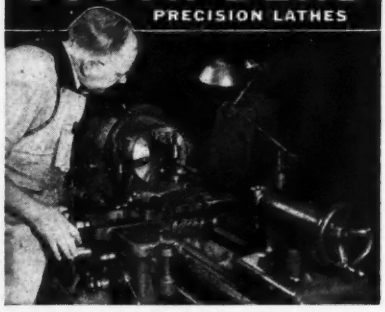

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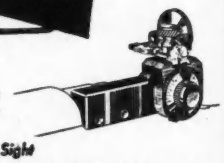

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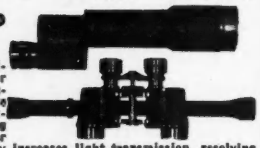

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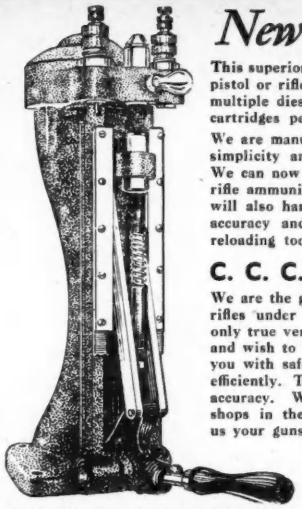

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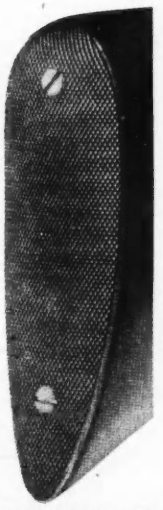

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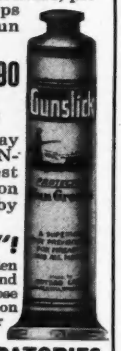

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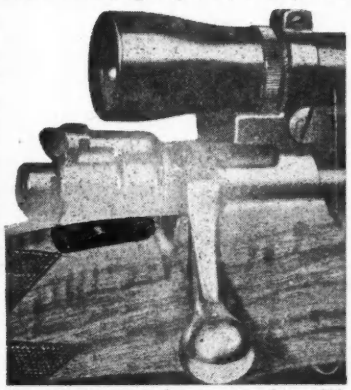

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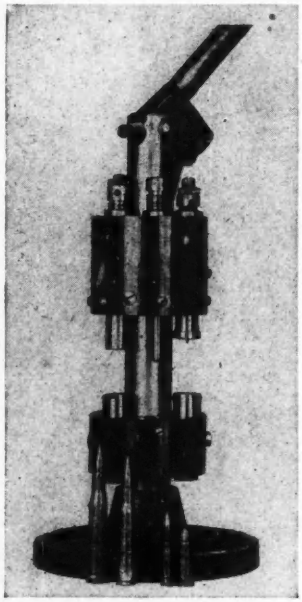

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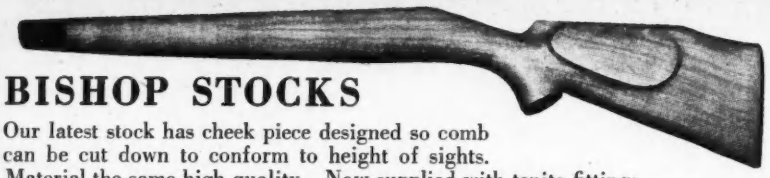

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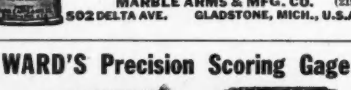

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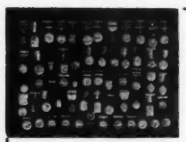

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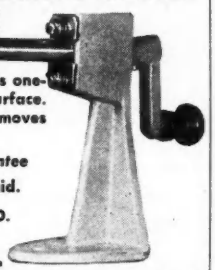

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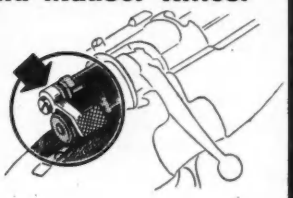

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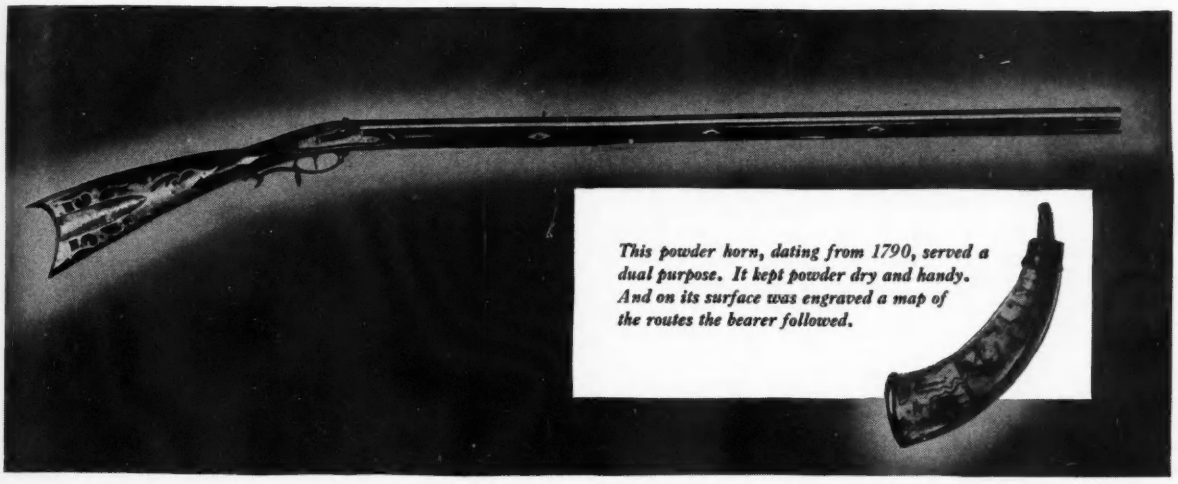

This powder horn, dating from 1790, served a dual purpose. It kept powder dry and handy. And on its surface was engraved a map of the routes the bearer followed.

Early American MULE EAR "KENTUCKY" PILLOCK

Early in the 19th century, many American sportsmen adopted the Mule Ear "Kentucky" Pillock as their favorite rifle. This gun was a transition between the flintlock and the percussion rifles. A mixture of fulminate in the form of a small pill was inserted in an opening under the "mule ear" or side-hammer. When struck, it ignited the muzzle load. The pillock above is from the Philip Medicus collection. Stock and fore-end were turned from walnut rather than the usual curly maple. The rifle is 56" long, barrel 41", bore .38 rifled. And the gun shows 17 brass and silver inlays.

* * * * *

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